

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: P652064

Luminaire Tested: **GALN-SA8A-840-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652064
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-SA8A-840-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA 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: 17169 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G1

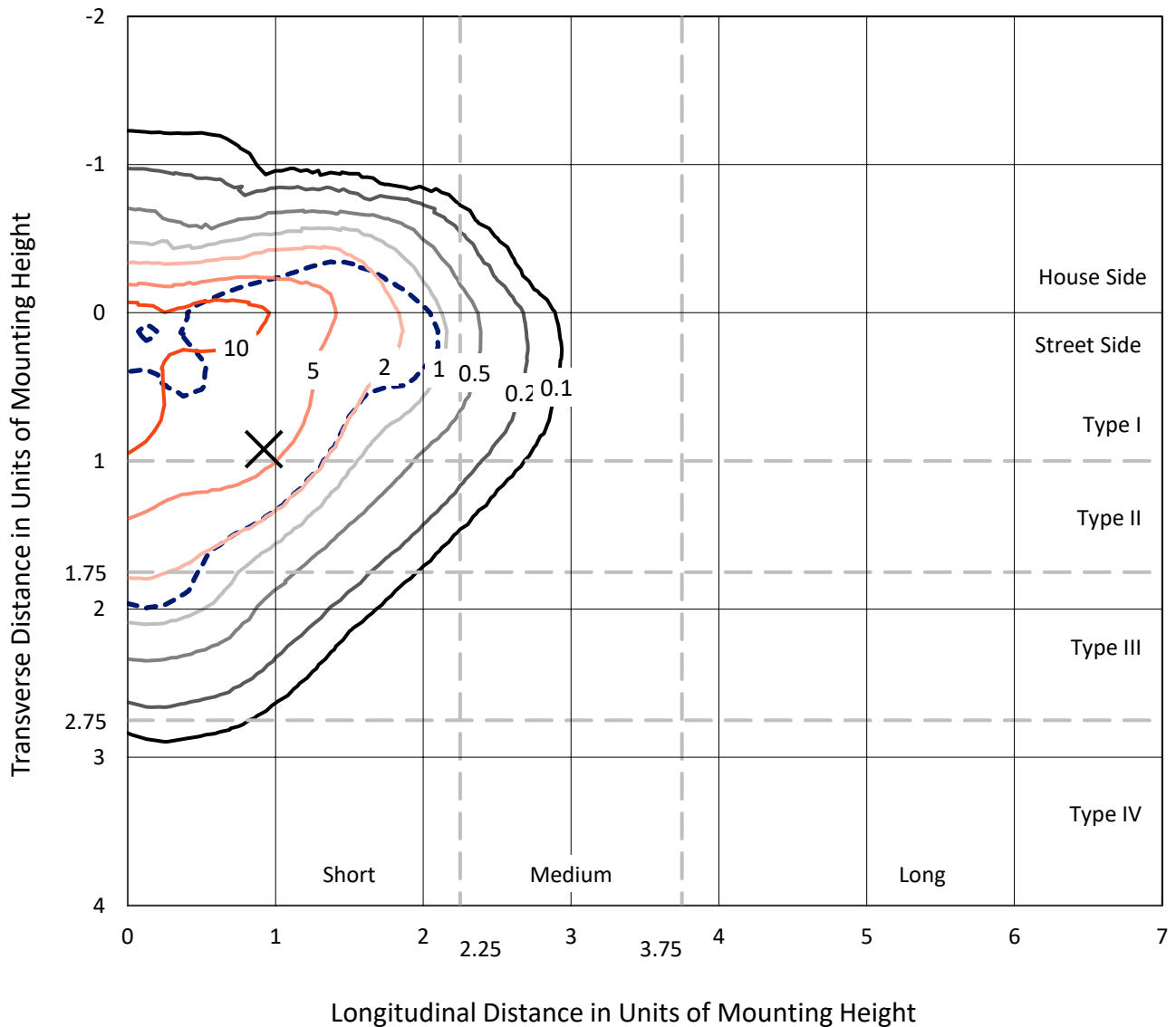
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

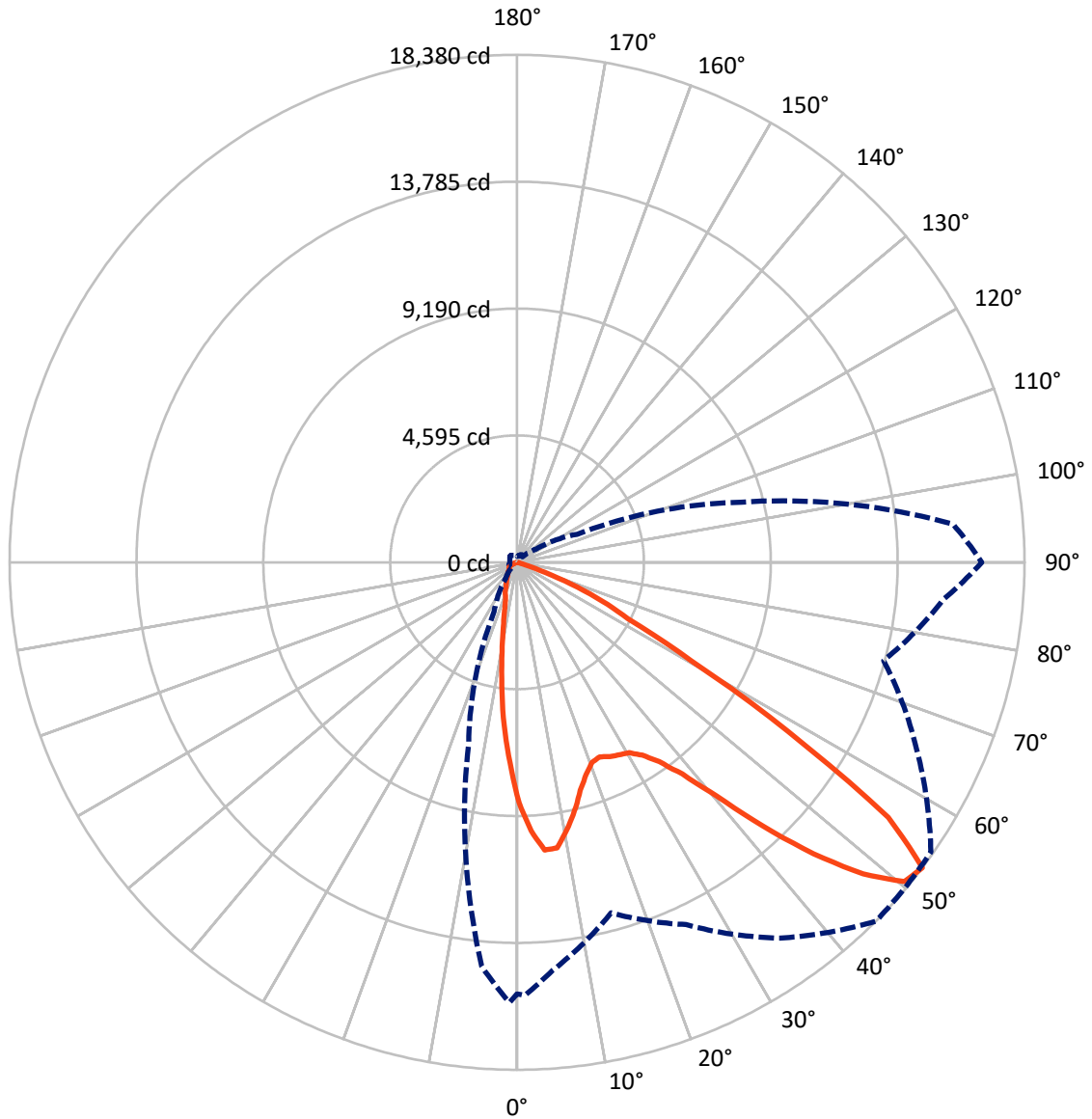
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3484.5	0.0	3484.5
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	13684.6	0.0	13684.6
	% Fixture	79.7	0.0	79.7
Total	Lumens	17169.0	0.0	17169.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	634.9	3.7
10°-20°	1252.6	7.3
20°-30°	1906.2	11.1
30°-40°	2849.1	16.6
40°-50°	4057.4	23.6
50°-60°	4361.5	25.4
60°-70°	1932.7	11.3
70°-80°	156.4	0.9
80°-90°	18.2	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°	17169.0	100.0
0°-180°	17169.0	100.0

Coefficient of Utilization



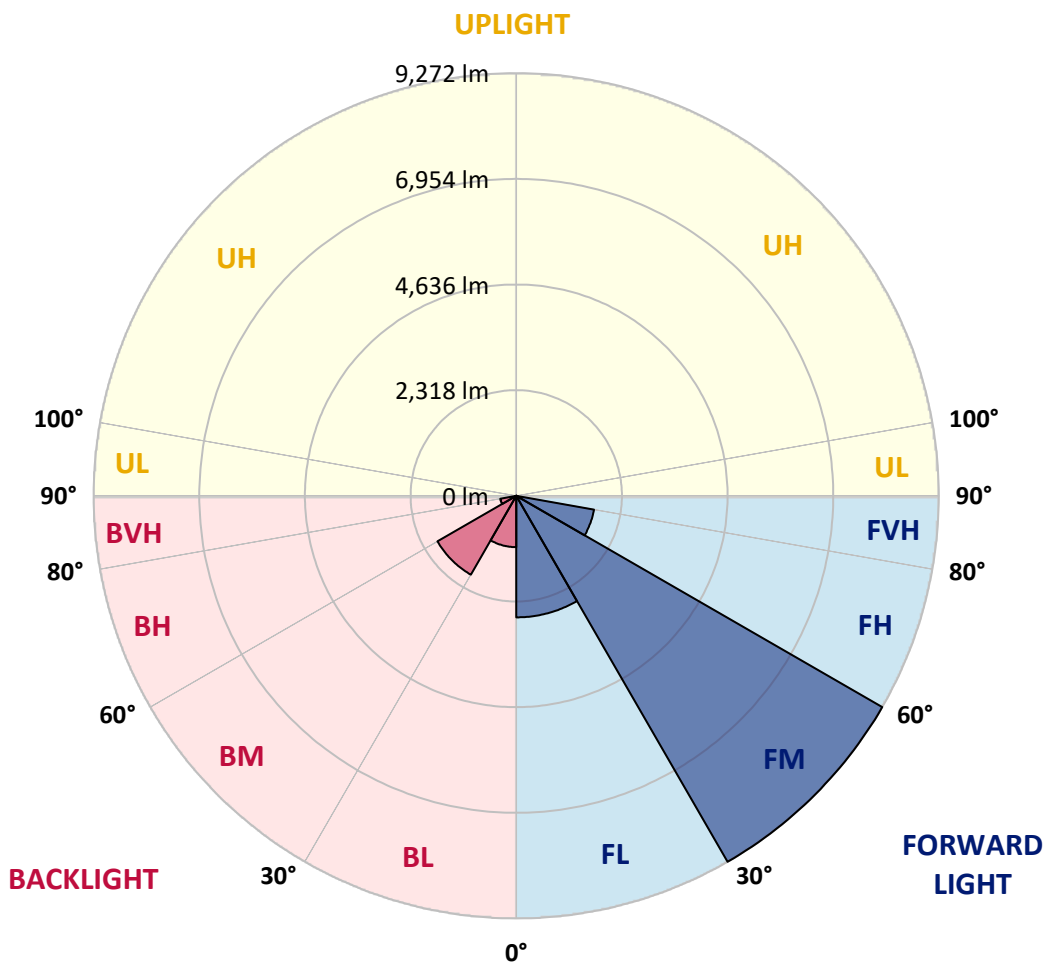
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2666.7	15.5			
FM (30°-60°)	9271.8	54.0			
FH (60°-80°)	1732.6	10.1			G1/1800
FVH (80°-90°)	13.5	0.1			G1/100
BL (0°-30°)	1127.0	6.6	B3/2500		
BM (30°-60°)	1996.2	11.6	B2/2500		
BH (60°-80°)	356.5	2.1	B1/500		G1/500
BVH (80°-90°)	4.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8705.5	8705.5	8705.5	8705.5	8705.5	8705.5	8705.5	8705.5	8705.5	8705.5	8705.5
2.5°	9212.0	9239.1	9387.6	9573.4	9671.2	9894.1	9738.8	9779.3	9694.9	9397.8	9164.7
5°	8931.8	8928.4	9117.4	9576.7	10012.4	10454.7	10468.2	10231.9	9816.5	9360.6	8708.9
7.5°	8087.6	8219.3	8415.0	9147.9	9954.9	10285.9	10444.5	10167.7	9529.5	8877.7	8171.9
10°	7449.3	7516.9	7847.8	8732.5	9323.4	9765.8	9863.8	9705.1	9215.4	8401.6	7611.4
12.5°	7081.2	7115.0	7503.3	8246.3	8871.0	9198.5	9245.8	9320.0	8968.8	8205.7	7256.8
15°	7084.6	7111.6	7635.0	8256.3	8502.8	8415.0	8570.4	8567.0	8719.0	8168.5	7553.9
17.5°	7594.5	7624.9	8097.7	8405.0	8296.9	8090.9	8080.7	8236.1	8556.9	8631.2	8003.1
20°	8472.5	8543.4	8891.2	8874.3	8266.5	7851.2	7736.4	7854.5	8600.8	9022.9	8908.1
22.5°	9654.3	9752.3	9995.5	9529.5	8405.0	7689.1	7651.9	7881.5	8891.2	9897.5	9934.6
25°	11025.3	11190.9	11309.0	10711.3	8897.9	7969.3	7793.7	8188.8	9283.0	10846.4	11241.5
27.5°	11933.7	12105.9	12078.9	11224.6	9228.9	8043.7	7895.1	8263.2	9624.0	11072.7	11923.6
30°	12642.9	12747.5	12936.7	11501.5	9559.8	8253.0	7999.8	8577.2	9735.4	11464.3	12747.5
32.5°	13470.2	13541.1	13554.6	11991.1	10069.7	8516.4	8323.9	8968.8	10228.4	11839.2	13476.9
35°	14304.3	14408.9	14189.4	12595.6	10383.7	9006.0	8864.2	9647.6	10623.5	12227.6	14280.7
37.5°	15209.3	15263.3	14756.8	12845.5	10832.9	9802.9	9725.3	10380.4	11309.0	12930.0	15172.1
40°	15969.1	16019.7	15361.2	13152.8	11305.6	10917.4	11116.6	11778.4	12241.0	13385.8	15617.9
42.5°	16391.2	16509.3	15563.9	12983.9	12254.5	12180.3	13065.0	13298.0	13321.6	13514.1	16016.3
45°	16506.0	16452.0	15229.5	13122.4	13085.3	14257.1	15060.7	15368.0	14395.5	13750.5	16117.7
47.5°	15975.8	16046.7	14736.5	13000.9	14176.0	15830.6	16870.7	17441.3	15195.8	13544.5	15867.7
50°	15547.0	15455.8	14577.8	12913.1	14469.7	16573.5	18177.5	18305.9	15931.9	13797.8	15594.2
52.5°	15631.4	15688.8	14831.0	13146.0	14476.5	16617.4	18380.1	18292.3	15955.5	13740.3	15496.4
55°	15810.4	15557.1	14723.1	12632.7	13507.4	15391.6	16313.5	16178.4	14726.4	13129.2	15256.6
57.5°	13642.4	14034.1	13537.7	11278.7	11086.1	11596.0	11579.1	11994.5	10984.9	11298.9	13888.9
60°	11072.7	11140.2	11325.9	9647.6	7672.2	7496.6	7253.5	6990.1	7391.9	9661.2	12632.7
62.5°	9738.8	9657.8	10319.7	8776.4	5416.5	4535.1	4494.6	4656.7	5703.5	9215.4	11849.4
65°	7077.9	7179.2	7658.7	6811.1	4065.7	3461.2	3400.5	3880.0	4616.2	7385.2	9043.2
67.5°	4322.3	4518.2	4562.1	4200.8	2758.9	2191.6	2103.8	2539.4	3333.0	4778.2	5301.7
70°	1995.7	2232.1	2455.0	2292.9	1597.2	901.6	850.9	1067.1	1681.7	2748.7	2812.9
72.5°	604.4	607.8	850.9	888.1	516.6	202.6	179.0	236.4	570.7	908.4	955.6
75°	43.9	47.3	114.8	131.7	97.9	50.6	54.0	64.2	121.5	202.6	152.0
77.5°	3.4	3.4	3.4	16.9	30.4	33.8	43.9	50.6	64.2	74.3	67.5
80°	3.4	0.0	3.4	13.5	23.6	33.8	40.5	47.3	50.6	57.4	50.6
82.5°	0.0	0.0	0.0	10.1	23.6	33.8	37.2	50.6	57.4	67.5	57.4
85°	0.0	0.0	0.0	10.1	23.6	37.2	33.8	16.9	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°	8705.5	8705.5	8705.5	8705.5	8705.5	8705.5	8705.5	8705.5	8705.5	8705.5	8705.5
2.5°	9205.2	9073.5	8773.1	8621.1	8263.2	8212.4	7861.2	7803.9	7685.6	7621.6	7466.2
5°	8421.9	8263.2	7773.4	7361.5	6882.0	6547.7	6291.0	6058.1	5923.0	5798.0	5855.5
7.5°	7783.6	7321.0	6777.3	6088.4	5534.6	5176.7	4785.0	4464.2	4275.1	4146.7	4177.2
10°	7115.0	6814.5	6058.1	5284.8	4616.2	4362.9	4055.6	3809.1	3542.3	3312.7	3204.6
12.5°	6905.6	6459.9	5511.0	4724.2	4217.7	3971.2	3620.0	3336.3	2995.2	2715.0	2617.0
15°	6942.8	6513.9	5362.4	4521.6	3923.9	3498.4	3079.7	2728.5	2353.6	2157.8	2056.5
17.5°	7547.2	6804.4	5460.4	4308.9	3515.3	2924.3	2407.7	1962.0	1681.7	1479.1	1435.2
20°	8290.2	7432.4	5669.7	4153.5	3181.0	2326.6	1759.4	1374.4	1141.4	1107.6	1097.5
22.5°	9377.5	8458.9	6118.9	4048.8	2772.4	1813.4	1205.5	999.5	935.4	928.6	932.0
25°	10897.1	9745.6	6608.5	3961.0	2465.1	1398.0	986.1	847.6	827.3	817.2	834.1
27.5°	11555.5	10522.3	6868.4	3772.0	2184.8	1259.6	972.5	840.8	783.4	766.6	776.7
30°	12369.3	11038.9	7277.1	3447.8	1772.8	1036.7	908.4	915.1	888.1	803.7	776.7
32.5°	13449.9	11683.8	7483.0	3218.1	1583.8	857.7	665.2	611.2	682.1	695.6	719.3
35°	14142.2	12339.0	7587.8	3083.0	1485.8	732.8	563.9	513.3	496.4	499.8	513.3
37.5°	15428.7	13223.7	7719.5	2941.2	1411.5	638.2	509.9	462.6	439.0	439.0	452.5
40°	16198.7	13926.1	7898.4	2863.5	1337.2	580.8	462.6	422.1	401.8	401.8	408.6
42.5°	16391.2	14273.9	7837.6	2836.5	1252.8	567.3	422.1	391.7	368.1	364.7	361.3
45°	16735.6	14804.0	7847.8	2806.2	1165.0	516.6	398.5	364.7	330.9	327.6	324.2
47.5°	17113.8	15185.6	7868.1	2688.0	1080.6	432.3	415.4	337.7	297.1	290.4	290.4
50°	16789.6	15489.5	8043.7	2569.8	972.5	351.2	408.6	317.4	263.4	253.2	256.7
52.5°	16830.2	15847.5	8415.0	2404.3	837.5	280.3	330.9	300.6	239.8	222.9	226.2
55°	16181.8	15469.3	8465.8	2228.7	655.1	216.1	253.2	263.4	202.6	195.9	195.9
57.5°	13929.5	13098.7	7469.6	1806.6	432.3	179.0	182.3	229.6	175.6	168.9	172.2
60°	11920.2	10515.4	6010.8	1192.0	270.1	141.8	131.7	233.0	155.3	152.0	162.1
62.5°	10866.6	8641.4	4558.7	739.5	185.7	108.1	91.2	189.1	135.1	135.1	148.6
65°	7851.2	5804.8	2650.8	388.4	131.7	84.4	67.5	108.1	111.4	114.8	121.5
67.5°	4862.7	2931.1	1117.8	189.1	87.8	57.4	43.9	67.5	74.3	74.3	81.1
70°	2401.0	1168.4	371.5	108.1	67.5	47.3	30.4	37.2	37.2	33.8	37.2
72.5°	742.9	351.2	94.5	67.5	47.3	30.4	16.9	13.5	6.7	0.0	3.4
75°	84.4	67.5	60.8	47.3	30.4	13.5	3.4	0.0	0.0	0.0	0.0
77.5°	50.6	57.4	57.4	47.3	30.4	10.1	0.0	0.0	0.0	0.0	0.0
80°	40.5	43.9	47.3	43.9	27.0	13.5	0.0	0.0	0.0	0.0	0.0
82.5°	50.6	57.4	64.2	57.4	37.2	16.9	6.7	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	10.1	3.4	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°	8705.5	8705.5	8705.5	8705.5	8705.5	8705.5	8705.5	8705.5	8705.5	8705.5	8705.5
2.5°	7402.1	7327.7	7432.4	7277.1	7273.7	7277.1	7233.2	7192.7	7256.8	7429.1	7446.0
5°	5649.4	5808.2	5858.8	6024.3	5933.1	5798.0	5825.0	5733.9	5956.7	6054.7	5977.0
7.5°	4113.0	4102.8	4443.9	4464.2	4508.1	4511.5	4504.7	4325.8	4143.4	4183.9	4305.5
10°	3191.1	3018.9	3184.4	3167.5	3275.5	3245.2	3289.1	3096.6	3160.7	3160.7	3238.4
12.5°	2600.2	2417.8	2387.4	2343.5	2387.4	2404.3	2421.2	2384.1	2492.1	2542.8	2596.8
15°	1985.6	1884.3	1857.3	1772.8	1786.4	1833.6	1874.2	1891.0	1857.3	1934.9	1941.7
17.5°	1441.9	1438.5	1455.4	1452.1	1438.5	1428.4	1425.0	1381.1	1367.6	1374.4	1401.4
20°	1094.1	1121.1	1178.5	1235.9	1266.3	1229.2	1178.5	1104.2	1073.9	1080.6	1084.0
22.5°	935.4	975.9	1053.6	1117.8	1148.1	1080.6	989.4	925.3	911.7	908.4	905.0
25°	847.6	894.8	952.3	972.5	969.2	928.6	861.1	834.1	827.3	820.6	790.2
27.5°	800.3	817.2	827.3	850.9	861.1	834.1	817.2	776.7	769.9	769.9	749.7
30°	773.3	763.1	776.7	759.8	773.3	753.0	756.4	756.4	739.5	746.3	746.3
32.5°	719.3	722.7	722.7	688.9	699.0	675.4	699.0	719.3	722.7	726.0	753.0
35°	526.8	587.6	618.0	618.0	628.1	611.2	607.8	584.2	553.8	523.4	509.9
37.5°	462.6	486.3	526.8	550.4	567.3	553.8	523.4	486.3	469.4	455.9	442.4
40°	412.0	432.3	459.3	486.3	520.1	503.2	455.9	439.0	418.7	418.7	405.2
42.5°	371.5	381.6	398.5	439.0	476.2	442.4	408.6	395.1	384.9	381.6	378.2
45°	334.3	337.7	354.6	388.4	432.3	398.5	364.7	347.8	351.2	354.6	351.2
47.5°	300.6	307.3	317.4	357.9	384.9	368.1	330.9	320.8	320.8	320.8	324.2
50°	260.0	276.9	297.1	330.9	351.2	341.0	310.7	297.1	290.4	290.4	293.8
52.5°	233.0	246.5	273.5	314.0	341.0	324.2	293.8	273.5	260.0	256.7	263.4
55°	202.6	226.2	270.1	300.6	337.7	320.8	287.0	263.4	239.8	236.4	236.4
57.5°	182.3	219.5	260.0	297.1	327.6	314.0	287.0	256.7	226.2	222.9	222.9
60°	172.2	212.8	253.2	287.0	327.6	307.3	283.7	249.9	216.1	216.1	212.8
62.5°	162.1	199.2	239.8	273.5	314.0	297.1	273.5	239.8	206.0	206.0	199.2
65°	135.1	172.2	199.2	229.6	273.5	256.7	233.0	209.3	182.3	175.6	179.0
67.5°	94.5	118.2	145.2	175.6	202.6	195.9	185.7	168.9	145.2	141.8	138.4
70°	47.3	64.2	87.8	118.2	141.8	135.1	128.3	114.8	101.3	97.9	97.9
72.5°	6.7	20.3	37.2	54.0	74.3	77.7	74.3	70.9	67.5	64.2	67.5
75°	0.0	0.0	0.0	13.5	30.4	37.2	43.9	50.6	50.6	43.9	54.0
77.5°	0.0	0.0	0.0	0.0	3.4	16.9	33.8	43.9	54.0	47.3	64.2
80°	0.0	0.0	0.0	0.0	3.4	20.3	33.8	47.3	54.0	47.3	67.5
82.5°	0.0	0.0	0.0	0.0	3.4	23.6	33.8	43.9	50.6	47.3	60.8
85°	0.0	0.0	0.0	0.0	10.1	20.3	13.5	6.7	3.4	3.4	10.1
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-SA8A-840-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8705.5	8705.5	8705.5	8705.5	8705.5	8705.5	8705.5	8705.5	8705.5	8705.5
2.5°	7540.5	7780.3	8036.8	8134.8	8438.7	8668.4	8823.7	9158.0	9208.6	9212.0
5°	6058.1	6179.6	6618.6	6824.6	7277.1	7628.3	8003.1	8543.4	8904.8	8931.8
7.5°	4305.5	4643.2	4828.9	5365.8	5923.0	6473.4	7030.6	7658.7	8077.4	8087.6
10°	3464.7	3684.2	4015.1	4416.9	4886.3	5446.8	6189.8	6919.2	7344.6	7449.3
12.5°	2789.3	3174.2	3552.5	3967.8	4325.8	4747.9	5548.2	6520.7	6871.9	7081.2
15°	2147.7	2498.9	2944.6	3430.9	3836.1	4400.0	5311.8	6422.7	7013.7	7084.6
17.5°	1583.8	1897.8	2309.7	2769.0	3376.9	4177.2	5352.3	6919.2	7476.3	7594.5
20°	1138.0	1320.4	1644.5	2178.0	2951.3	3917.1	5392.8	7422.3	8269.9	8472.5
22.5°	901.6	975.9	1188.7	1661.4	2475.2	3643.6	5679.9	8384.7	9360.6	9654.3
25°	783.4	823.9	925.3	1310.2	2174.7	3616.6	6139.1	9539.5	10812.7	11025.3
27.5°	756.4	763.1	850.9	1202.1	2012.6	3437.6	6314.6	10360.1	11717.7	11933.7
30°	796.9	905.0	911.7	1016.4	1712.0	3083.0	6405.9	11153.7	12484.1	12642.9
32.5°	688.9	655.1	678.8	786.8	1506.1	2877.1	6578.0	11846.0	13358.8	13470.2
35°	479.5	503.2	557.2	682.1	1317.0	2660.9	6621.9	12609.1	14189.4	14304.3
37.5°	442.4	455.9	499.8	580.8	1158.2	2539.4	6561.2	13166.3	15050.5	15209.3
40°	412.0	428.8	452.5	526.8	1040.1	2404.3	6476.8	13669.4	15577.3	15969.1
42.5°	388.4	401.8	422.1	503.2	938.7	2269.3	6358.5	14378.6	16050.1	16391.2
45°	361.3	381.6	405.2	489.6	881.4	2178.0	6270.7	14334.7	16323.6	16506.0
47.5°	334.3	368.1	395.1	455.9	864.5	2134.1	6307.9	14169.3	16100.8	15975.8
50°	307.3	351.2	398.5	378.2	823.9	2046.4	6351.8	14395.5	15570.6	15547.0
52.5°	283.7	334.3	371.5	310.7	732.8	1962.0	6777.3	14692.6	15945.4	15631.4
55°	249.9	300.6	297.1	249.9	594.3	1897.8	7111.6	14699.3	15692.1	15810.4
57.5°	226.2	266.8	233.0	209.3	439.0	1587.1	6568.0	12325.4	13433.0	13642.4
60°	209.3	260.0	175.6	165.4	287.0	1144.8	5733.9	9546.4	10677.6	11072.7
62.5°	192.5	246.5	138.4	135.1	199.2	813.8	4714.1	7989.6	9201.9	9738.8
65°	168.9	175.6	111.4	104.7	141.8	439.0	2870.3	5500.9	6878.6	7077.9
67.5°	138.4	135.1	91.2	84.4	94.5	212.8	1266.3	2755.5	3988.0	4322.3
70°	111.4	111.4	77.7	67.5	67.5	97.9	330.9	1097.5	1803.3	1995.7
72.5°	81.1	84.4	60.8	54.0	50.6	47.3	54.0	219.5	472.7	604.4
75°	70.9	74.3	60.8	47.3	37.2	30.4	23.6	20.3	27.0	43.9
77.5°	77.7	77.7	64.2	43.9	33.8	23.6	13.5	6.7	6.7	3.4
80°	97.9	101.3	84.4	57.4	40.5	27.0	16.9	6.7	3.4	3.4
82.5°	104.7	114.8	94.5	70.9	50.6	30.4	16.9	3.4	0.0	0.0
85°	27.0	43.9	74.3	64.2	50.6	30.4	16.9	3.4	0.0	0.0
87.5°	0.0	3.4	10.1	10.1	13.5	13.5	10.1	3.4	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)