

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: P652049

Luminaire Tested: **GALN-SA8A-840-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652049  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-840-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25444.5 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

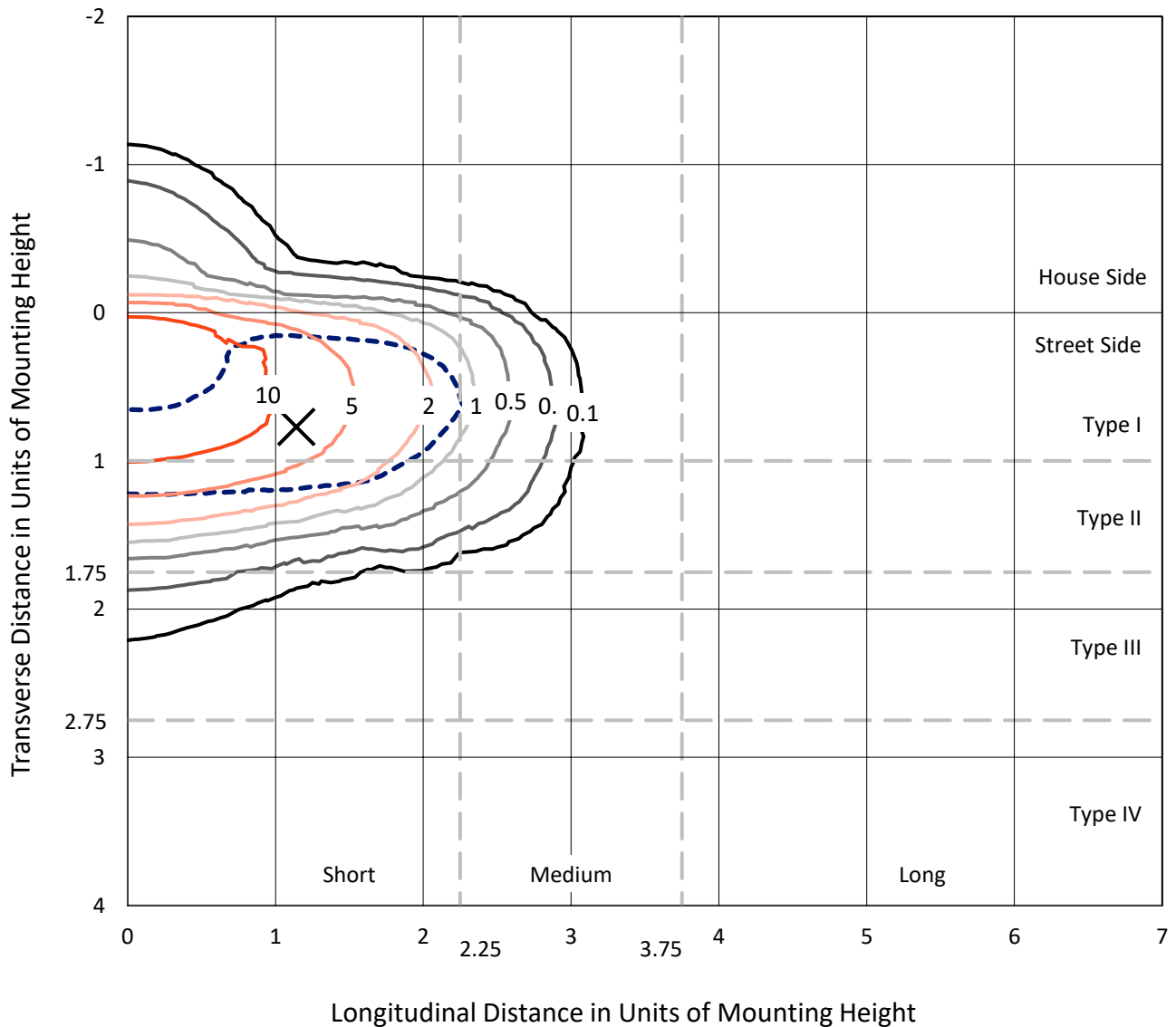
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA8A-840-U-AFL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

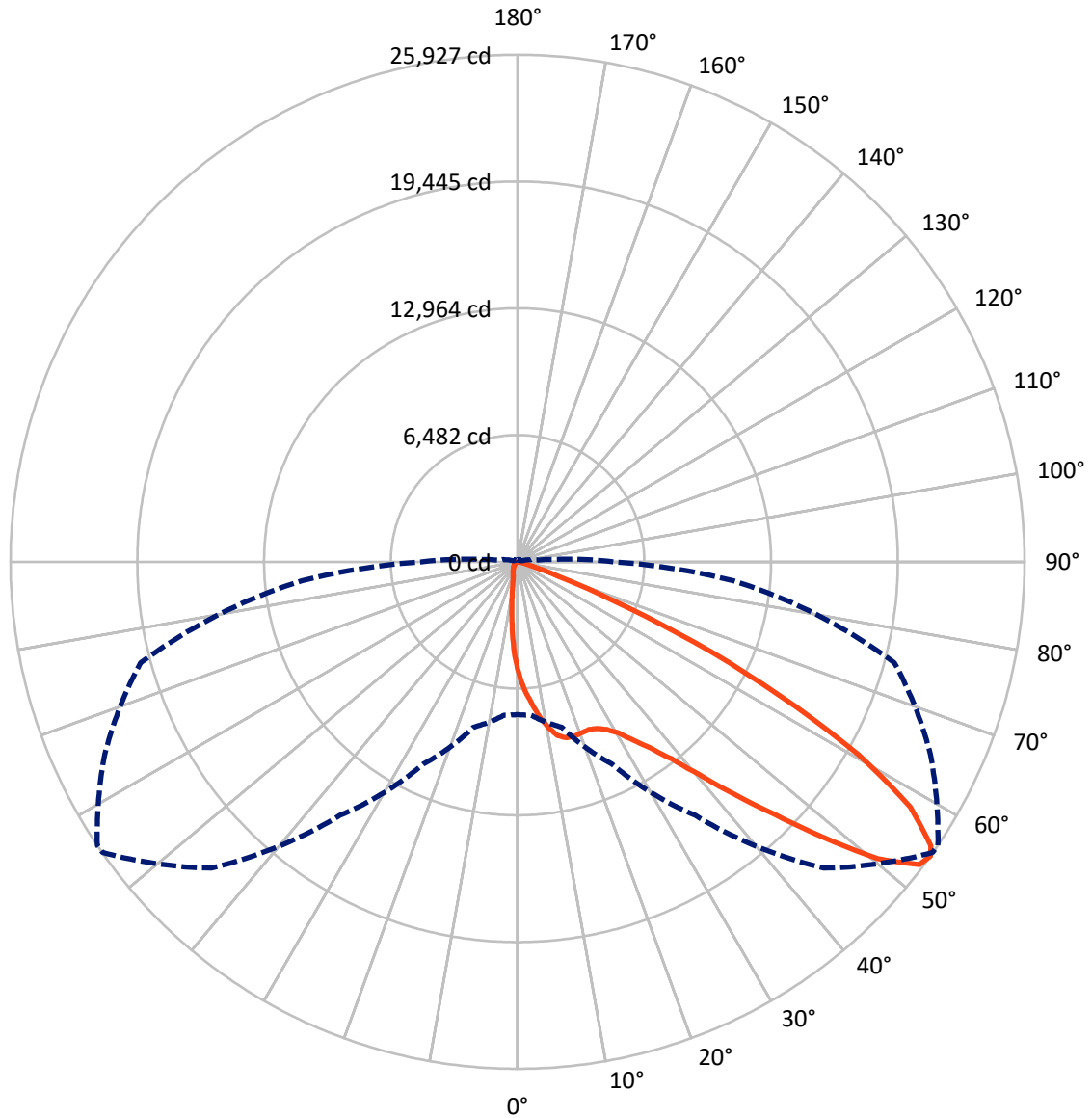
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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 CATALOG NUMBER: GALN-SA8A-840-U-AFL-HSS

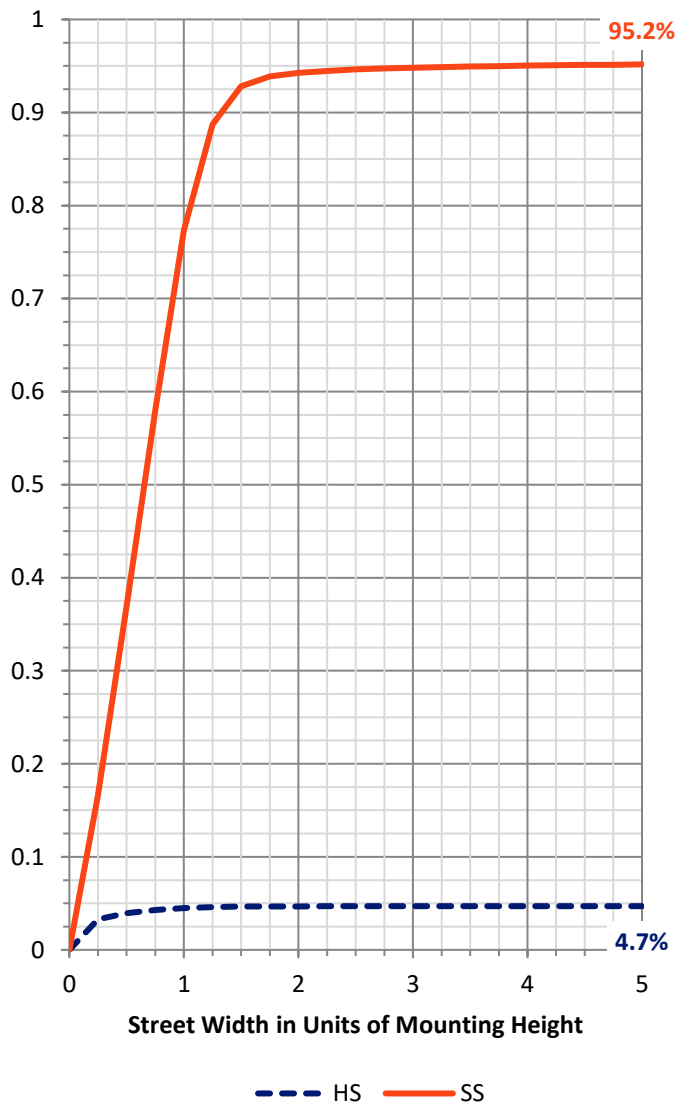
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1203.2	0.0	1203.2
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	24241.3	0.0	24241.3
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	25444.5	0.0	25444.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	499.5	2.0
10°-20°	1350.4	5.3
20°-30°	2338.8	9.2
30°-40°	4037.1	15.9
40°-50°	6871.3	27.0
50°-60°	6800.0	26.7
60°-70°	3103.7	12.2
70°-80°	398.6	1.6
80°-90°	44.9	0.2
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°	25444.5	100.0
0°-180°	25444.5	100.0

**Coefficient of Utilization**

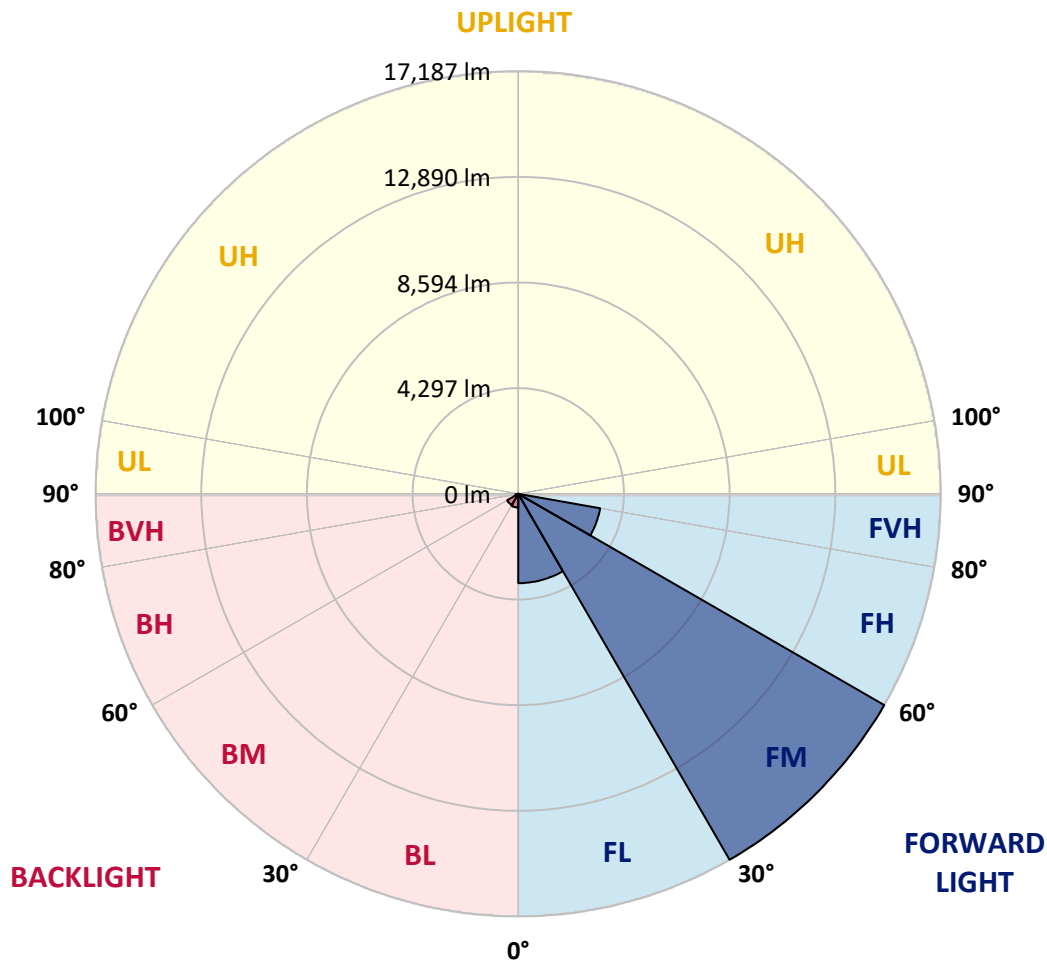


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3632.3	14.3			
FM (30°-60°)	17187.1	67.5			
FH (60°-80°)	3381.8	13.3			G2/5000
FVH (80°-90°)	40.1	0.2			G1/100
BL (0°-30°)	556.5	2.2	B2/1000		
BM (30°-60°)	521.5	2.0	B1/1000		
BH (60°-80°)	120.5	0.5	B1/500		G1/500
BVH (80°-90°)	4.8	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5653.0	5653.0	5653.0	5653.0	5653.0	5653.0	5653.0	5653.0	5653.0	5653.0	5653.0
2.5°	7184.3	7134.5	7065.8	7012.7	6887.3	6707.1	6516.5	6516.5	6332.8	6077.1	5816.1
5°	8286.4	8253.8	8186.9	8049.5	7908.8	7656.4	7273.6	7206.6	6878.7	6415.2	5927.7
7.5°	8734.5	8749.9	8753.4	8717.3	8650.4	8401.4	8022.0	7975.7	7452.1	6830.7	6073.6
10°	8305.3	8380.8	8454.7	8604.0	8815.1	8875.2	8660.6	8612.6	8097.6	7251.3	6231.6
12.5°	7666.7	7707.9	7749.1	7984.3	8408.3	8894.1	9119.0	9117.3	8681.2	7670.1	6432.4
15°	7369.7	7405.8	7409.2	7513.9	7881.3	8588.5	9314.7	9340.5	9251.2	8186.9	6648.7
17.5°	7431.5	7460.7	7436.6	7462.4	7654.7	8252.1	9292.4	9378.2	9713.0	8683.0	6844.4
20°	7834.9	7891.6	7798.8	7726.8	7785.1	8162.8	9216.9	9337.0	10039.2	9167.1	7022.9
22.5°	8559.4	8590.2	8473.5	8276.1	8173.1	8350.0	9196.3	9314.7	10317.2	9563.6	7126.0
25°	9364.5	9354.2	9225.4	9004.0	8787.7	8727.6	9331.9	9438.3	10547.3	9920.7	7156.8
27.5°	10169.6	10200.5	9984.2	9709.5	9450.3	9294.1	9635.8	9714.7	10806.5	10327.6	7194.6
30°	11105.2	11055.4	10842.5	10528.4	10231.4	10013.4	10125.0	10147.3	11163.6	10866.6	7294.2
32.5°	12322.3	12185.0	11946.4	11397.1	11184.2	10815.1	10842.5	10870.0	11597.9	11400.5	7414.3
35°	13973.8	13966.9	13500.0	12760.1	12241.7	11783.3	11663.2	11685.4	12255.4	12193.6	7680.4
37.5°	15961.7	15989.2	15457.0	14711.9	13757.5	13029.6	12782.4	12785.8	13254.5	13288.8	8085.5
40°	17580.5	17652.6	17335.0	16832.0	15889.6	14751.4	14336.0	14298.3	14658.7	14615.8	8664.1
42.5°	18277.5	18344.5	18462.9	18638.0	18119.5	17180.5	16200.3	16251.8	16361.7	16061.2	9313.0
45°	17935.8	18042.3	18507.6	19589.0	20076.6	19760.7	18591.7	18411.4	17946.2	17632.0	9965.3
47.5°	16512.8	16772.0	17549.7	19350.4	21056.8	22124.6	21290.3	21051.7	19532.4	18778.8	10380.8
50°	14172.9	14188.3	15271.6	17573.6	20548.7	23616.4	24045.5	23867.0	21010.5	19422.5	10590.2
52.5°	10274.3	10612.5	11604.8	14270.8	18347.8	23389.7	25801.7	25727.9	22534.8	19752.1	10892.3
54°	7810.9	7876.1	8758.5	11403.9	15819.2	22145.1	25909.9	25927.0	23291.9	19951.2	11070.8
55°	6403.2	6247.0	7174.0	9714.7	14094.0	21044.8	25556.2	25638.6	23631.8	20054.2	11203.0
57.5°	3035.1	3036.8	3745.8	5124.3	8827.1	16341.1	23394.9	23686.8	23669.6	20231.1	11609.9
60°	1536.4	1546.8	1702.9	2365.6	4360.3	10863.1	19343.6	20038.8	21848.2	20256.8	11743.8
62.5°	1074.6	1062.6	1036.9	1138.1	1835.1	5520.8	14401.2	15005.5	18562.5	19276.6	11318.1
65°	920.1	894.4	822.3	806.9	927.0	2199.0	8969.7	9955.0	14172.9	16691.2	10106.1
67.5°	786.3	775.9	710.7	671.2	655.8	957.9	4628.2	5146.6	9687.2	11997.9	7654.7
70°	667.8	662.6	623.2	573.4	530.4	573.4	1716.6	2127.0	5399.0	6459.9	3611.9
72.5°	542.4	547.7	554.5	491.0	446.3	406.9	733.0	853.2	2259.2	2309.0	1263.4
75°	475.5	470.4	470.4	427.5	372.5	302.2	403.4	434.3	691.8	642.0	293.6
77.5°	334.7	322.8	377.7	352.0	310.7	214.6	230.0	243.8	286.7	245.5	137.3
80°	231.8	231.8	242.0	315.9	279.8	156.3	140.8	151.0	170.0	145.9	79.0
82.5°	130.4	133.9	157.9	168.2	163.1	104.7	92.7	94.4	113.3	99.6	49.8
85°	15.5	25.7	91.0	89.2	66.9	46.3	51.5	53.2	70.4	61.8	29.2
87.5°	1.7	3.4	18.9	24.1	17.2	18.9	18.9	18.9	24.1	27.5	20.6
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-AFL-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5653.0	5653.0	5653.0	5653.0	5653.0	5653.0	5653.0	5653.0	5653.0	5653.0	5653.0
2.5°	5675.3	5544.9	5234.1	4873.7	4643.6	4269.4	3953.5	3725.2	3668.5	3558.7	3591.3
5°	5668.5	5397.2	4763.8	4094.2	3380.1	2848.0	2451.4	2139.0	2001.7	1910.7	1847.2
7.5°	5671.9	5247.9	4231.6	3165.5	2312.3	1790.5	1423.1	1232.6	1105.6	1052.3	1059.2
10°	5682.2	5079.6	3613.6	2345.0	1560.5	1157.0	932.2	841.2	798.3	791.4	789.7
12.5°	5706.3	4896.0	3023.1	1740.7	1091.8	841.2	755.3	724.4	710.7	710.7	705.5
15°	5732.0	4693.4	2532.1	1294.4	841.2	722.8	683.2	667.8	659.2	659.2	657.5
17.5°	5732.0	4459.9	2073.7	1004.2	724.4	664.4	633.4	612.8	606.0	606.0	604.3
20°	5695.9	4188.7	1666.9	808.5	657.5	609.4	578.5	556.2	547.7	544.2	542.4
22.5°	5570.6	3826.5	1327.0	695.3	602.6	561.4	521.8	496.1	489.3	485.8	487.5
25°	5347.5	3417.9	1050.6	611.2	552.8	503.0	468.7	449.8	442.9	442.9	444.6
27.5°	5117.4	2990.4	832.6	547.7	492.7	448.1	420.6	408.6	406.9	412.0	413.7
30°	4904.5	2561.3	674.7	496.1	439.5	401.7	382.8	379.4	379.4	381.1	382.8
32.5°	4667.6	2185.3	564.8	451.4	396.5	363.9	353.6	353.6	357.1	357.1	360.5
35°	4518.3	1862.6	496.1	408.6	363.9	336.5	329.6	331.4	336.5	343.3	346.7
37.5°	4437.6	1605.1	451.4	374.2	333.0	314.1	307.3	310.7	322.8	334.7	336.5
40°	4444.5	1411.1	415.5	345.1	309.0	288.4	283.2	293.6	305.5	317.6	319.3
42.5°	4520.0	1266.9	381.1	310.7	288.4	259.2	257.5	267.8	273.0	284.9	286.7
45°	4609.3	1162.2	345.1	274.7	250.6	224.9	226.6	235.1	242.0	261.0	264.4
47.5°	4636.8	1090.1	303.9	233.5	206.0	197.4	199.1	204.3	218.0	235.1	236.9
50°	4667.6	1045.4	264.4	197.4	175.1	173.4	175.1	178.5	187.1	194.0	192.3
52.5°	4799.8	1043.8	231.8	171.6	149.4	152.8	154.5	152.8	145.9	135.7	132.2
54°	4923.5	1048.9	216.3	159.6	137.3	142.5	140.8	132.2	115.0	104.7	99.6
55°	5023.0	1054.0	207.7	151.0	130.4	132.2	133.9	116.7	94.4	84.1	80.7
57.5°	5218.7	1042.0	187.1	132.2	115.0	108.2	106.5	77.3	51.5	44.7	41.2
60°	5120.8	940.7	170.0	113.3	97.9	87.5	72.1	42.9	25.7	18.9	18.9
62.5°	4736.3	798.3	151.0	92.7	80.7	66.9	37.8	24.1	12.0	6.9	5.1
65°	4236.8	671.2	135.7	73.8	63.5	42.9	20.6	15.5	5.1	0.0	0.0
67.5°	3150.1	497.9	115.0	58.4	48.1	27.5	13.7	8.6	1.7	0.0	0.0
70°	1459.2	303.9	97.9	44.7	34.3	20.6	10.3	5.1	0.0	0.0	0.0
72.5°	418.9	190.6	80.7	32.6	24.1	17.2	8.6	3.4	1.7	0.0	0.0
75°	145.9	152.8	60.0	24.1	18.9	12.0	6.9	3.4	1.7	0.0	0.0
77.5°	87.5	123.6	37.8	20.6	15.5	10.3	6.9	3.4	1.7	1.7	0.0
80°	49.8	82.4	24.1	17.2	13.7	8.6	5.1	3.4	1.7	1.7	0.0
82.5°	27.5	39.4	18.9	15.5	12.0	8.6	5.1	3.4	1.7	1.7	1.7
85°	22.3	20.6	15.5	13.7	10.3	6.9	5.1	1.7	0.0	0.0	0.0
87.5°	17.2	13.7	13.7	13.7	10.3	6.9	5.1	1.7	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

(END OF REPORT)