

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: P457077

Luminaire Tested: **GALN-SA8B-827-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24257 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

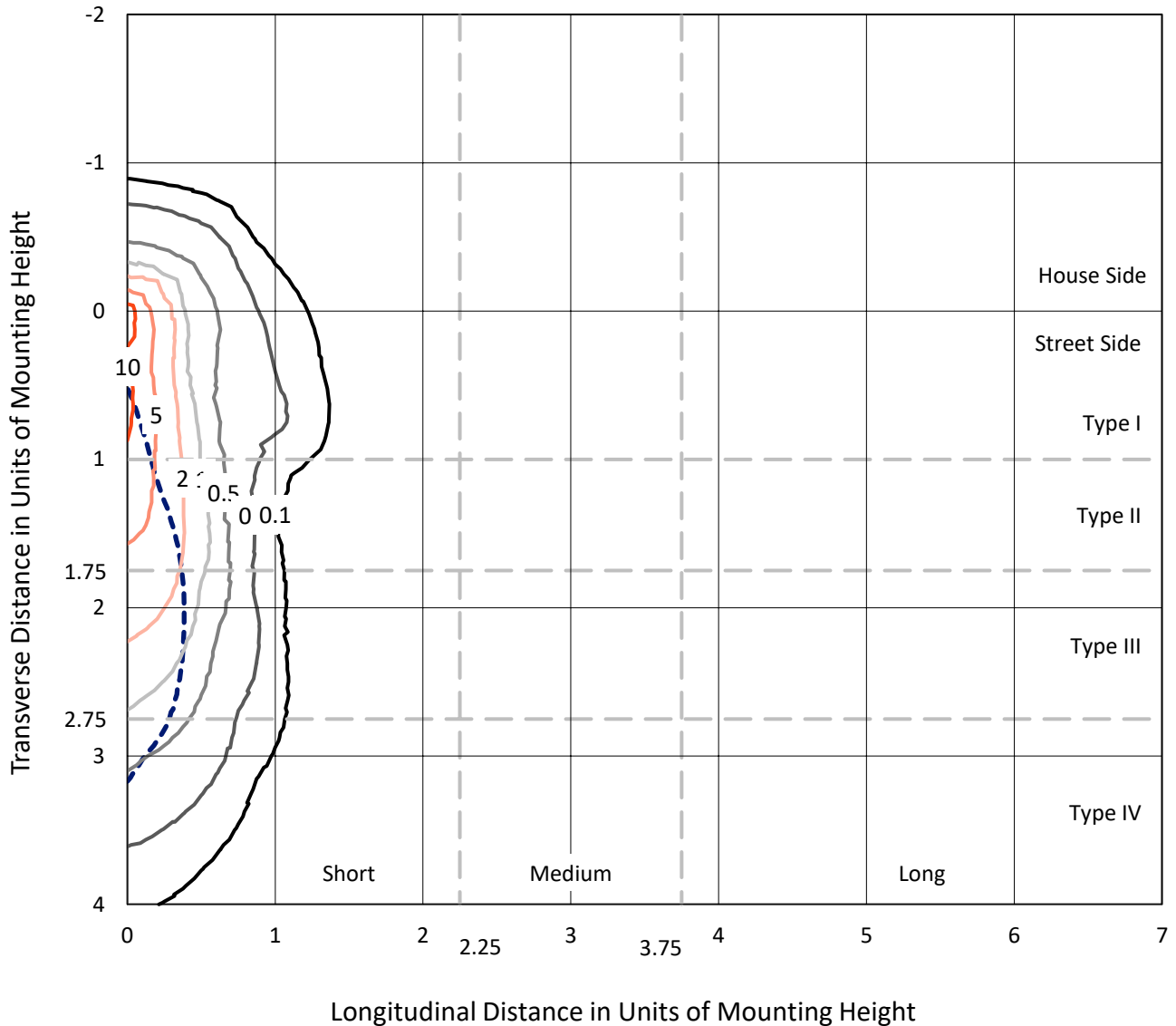
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

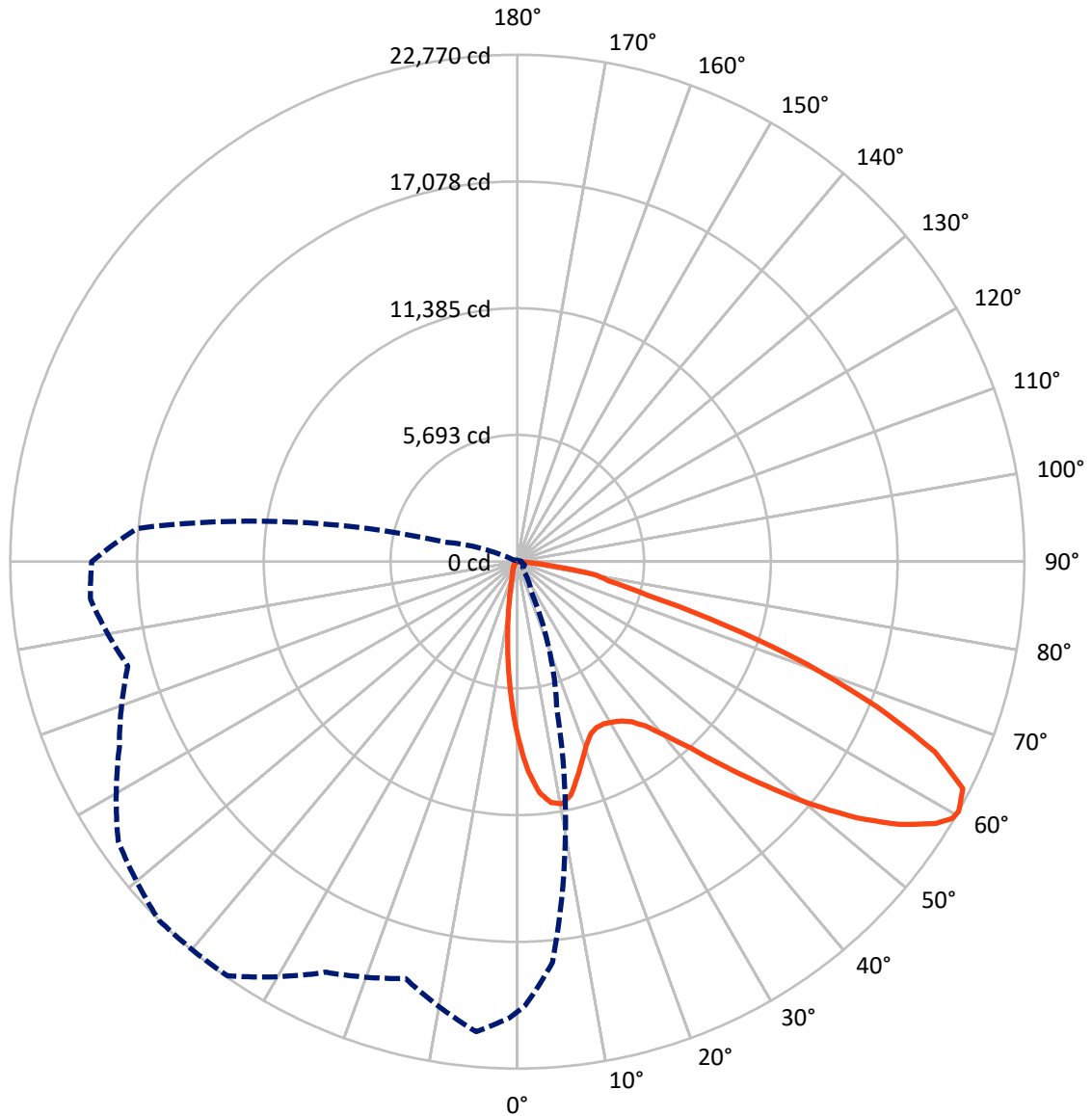
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2991.9	0.0	2991.9
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	21265.1	0.0	21265.1
	% Fixture	87.7	0.0	87.7
Total	Lumens	24257.0	0.0	24257.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.3	2.5
10°-20°	1184.3	4.9
20°-30°	1736.4	7.2
30°-40°	2582.4	10.6
40°-50°	3758.2	15.5
50°-60°	5419.6	22.3
60°-70°	5961.0	24.6
70°-80°	2670.0	11.0
80°-90°	348.9	1.4
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°	24257.0	100.0
0°-180°	24257.0	100.0

Coefficient of Utilization



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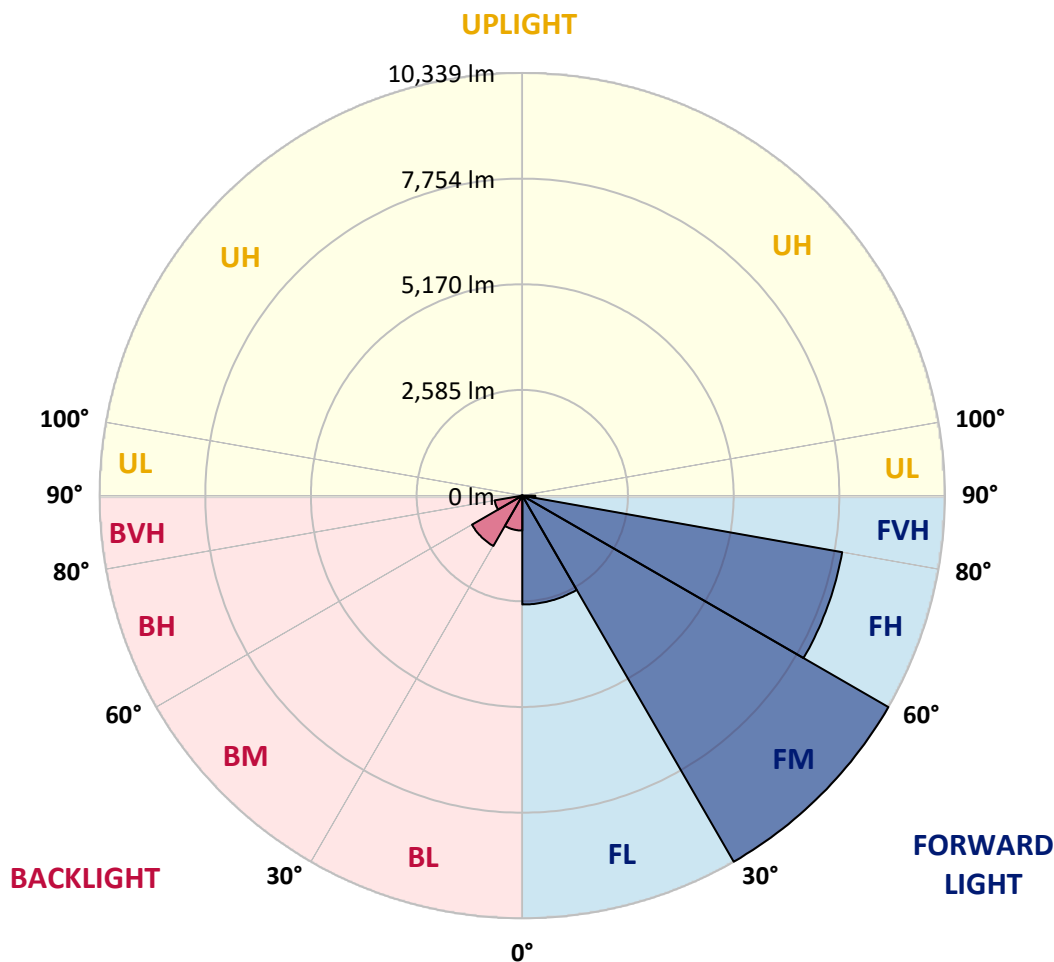
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2662.1	11.0			
FM	(30°-60°)	10339.1	42.6			
FH	(60°-80°)	7944.9	32.8			G4/12000
FVH	(80°-90°)	319.1	1.3			G3/500
BL	(0°-30°)	854.9	3.5	B2/1000		
BM	(30°-60°)	1421.1	5.9	B2/2500		
BH	(60°-80°)	686.1	2.8	B2/1000		G2/1000
BVH	(80°-90°)	29.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8017.3	8017.3	8017.3	8017.3	8017.3	8017.3	8017.3	8017.3	8017.3	8017.3	8017.3
2.5°	8813.9	8775.1	8686.6	8417.4	8183.2	7877.1	7567.4	7324.0	7174.6	6899.9	6774.5
5°	8539.1	8557.5	8301.2	7748.1	7132.2	6711.8	6252.7	5887.6	5485.6	5231.1	4963.8
7.5°	7821.8	7785.0	7506.5	6735.8	5987.1	5378.7	4797.8	4325.8	4028.9	3791.1	3591.9
10°	7207.8	7180.2	6824.3	5832.3	5028.3	4572.9	4180.1	3767.1	3448.1	3099.6	2821.2
12.5°	6822.4	6759.7	6350.4	5314.1	4659.5	4235.4	3807.7	3378.0	2937.3	2585.2	2247.7
15°	6693.4	6603.0	6147.6	5135.3	4423.5	3885.1	3348.5	2854.4	2347.3	1958.2	1703.8
17.5°	6927.5	6778.2	6293.2	5103.9	4141.4	3427.8	2767.7	2124.2	1596.8	1300.0	1143.2
20°	7464.1	7292.6	6662.0	5072.6	3827.9	2915.2	2103.9	1500.9	1104.5	942.2	855.6
22.5°	8260.7	8024.7	7207.8	5122.4	3538.4	2415.5	1519.4	1060.2	877.7	776.3	715.4
25°	9217.7	9020.4	7899.3	5299.4	3309.8	2022.8	1174.6	866.6	739.4	676.7	630.6
27.5°	10266.8	9951.5	8793.6	5511.4	3101.4	1718.5	1030.7	774.4	658.3	601.1	577.1
30°	11013.6	10768.4	9542.2	5658.9	2841.5	1489.9	942.2	763.4	660.1	591.9	547.6
32.5°	11751.2	11437.7	10169.1	5727.2	2651.5	1331.3	815.0	665.6	579.0	544.0	499.7
35°	12540.4	12212.2	10794.2	5690.3	2509.6	1226.2	739.4	593.7	496.0	437.0	392.8
37.5°	13338.8	12992.1	11415.6	5557.5	2421.0	1183.8	680.4	564.2	468.4	407.5	359.6
40°	14286.6	13823.7	11998.3	5448.7	2328.8	1161.7	641.7	545.8	448.1	383.5	335.6
42.5°	15061.0	14620.3	12549.6	5391.6	2266.2	1110.0	641.7	531.0	435.2	363.2	313.5
45°	15794.9	15337.6	13145.2	5437.7	2240.3	1045.5	649.1	529.2	425.9	348.5	298.7
47.5°	16408.9	16012.4	13757.4	5611.0	2207.2	975.4	610.3	555.0	420.4	335.6	284.0
50°	17133.5	16750.0	14566.8	5961.3	2148.1	905.4	562.4	597.4	418.6	324.5	271.1
52.5°	18155.1	17740.2	15684.2	6359.6	2054.1	798.4	518.1	591.9	411.2	306.1	258.1
55°	19403.4	19067.8	16978.6	6837.2	1925.0	678.6	448.1	525.5	389.1	274.7	236.0
57.5°	20203.6	19917.8	17948.5	7043.7	1727.7	555.0	394.6	440.7	355.9	245.2	210.2
59°	20297.7	20039.5	18151.4	6975.5	1598.7	507.1	368.8	378.0	346.7	228.6	195.5
60°	20218.4	19951.0	18070.2	6842.7	1478.8	473.9	346.7	335.6	348.5	219.4	184.4
62.5°	19709.5	19252.2	17282.9	6169.7	1292.6	435.2	307.9	274.7	307.9	197.3	164.1
65°	18726.7	18040.7	15724.8	5221.9	1218.8	413.0	261.8	230.5	234.2	173.3	142.0
67.5°	17010.0	16145.2	13650.4	4242.8	1187.5	414.9	221.3	206.5	180.7	147.5	125.4
70°	14295.8	13432.8	10952.8	3490.5	1172.7	414.9	188.1	177.0	151.2	123.5	108.8
72.5°	10130.4	9201.1	7388.5	2741.9	1056.6	413.0	160.4	160.4	123.5	103.3	88.5
75°	5723.5	5730.8	4644.8	1939.8	877.7	341.1	129.1	127.2	90.4	79.3	66.4
77.5°	3335.6	3276.6	3130.9	833.4	407.5	154.9	90.4	77.4	62.7	57.2	47.9
80°	1714.8	1410.6	1373.7	302.4	145.7	97.7	62.7	44.3	40.6	36.9	33.2
82.5°	507.1	508.9	453.6	121.7	81.1	64.5	31.3	24.0	22.1	20.3	20.3
85°	35.0	22.1	25.8	36.9	49.8	25.8	1.8	5.5	5.5	7.4	9.2
87.5°	3.7	1.8	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°	8017.3	8017.3	8017.3	8017.3	8017.3	8017.3	8017.3	8017.3	8017.3	8017.3	8017.3
2.5°	6636.2	6717.3	6566.1	6569.8	6444.4	6485.0	6337.5	6385.4	6298.8	6365.1	6560.6
5°	4993.3	5011.7	4890.0	4851.3	4869.7	4945.3	4974.8	4840.2	4897.4	4784.9	4777.5
7.5°	3518.2	3540.3	3470.2	3461.0	3593.8	3562.4	3619.6	3481.3	3350.4	3407.5	3302.4
10°	2732.7	2640.5	2496.6	2456.1	2430.3	2446.9	2446.9	2321.5	2303.0	2253.2	2328.8
12.5°	2157.4	2044.9	1908.4	1724.0	1678.0	1674.3	1606.0	1495.4	1460.4	1418.0	1480.7
15°	1567.3	1521.2	1406.9	1303.6	1198.5	1178.3	1067.6	977.3	857.4	840.8	835.3
17.5°	1102.7	1034.4	1032.6	973.6	912.7	872.2	768.9	665.6	619.6	614.0	614.0
20°	826.1	802.1	763.4	756.0	737.6	691.5	599.3	544.0	521.8	523.7	531.0
22.5°	695.2	678.6	643.5	626.9	619.6	579.0	510.8	473.9	462.8	462.8	464.7
25°	621.4	606.6	567.9	542.1	532.9	503.4	449.9	422.3	413.0	413.0	413.0
27.5°	566.1	547.6	507.1	484.9	468.4	435.2	402.0	374.3	365.1	365.1	366.9
30°	527.4	507.1	470.2	440.7	414.9	385.4	357.7	333.7	322.7	320.8	322.7
32.5°	475.7	457.3	420.4	402.0	372.5	337.4	315.3	293.2	282.1	284.0	282.1
35°	370.6	365.1	339.3	344.8	328.2	298.7	278.4	254.5	241.6	239.7	243.4
37.5°	337.4	315.3	285.8	287.6	282.1	271.1	237.9	212.0	202.8	202.8	204.7
40°	311.6	289.5	256.3	239.7	241.6	241.6	206.5	178.9	169.6	167.8	171.5
42.5°	289.5	267.4	230.5	202.8	195.5	204.7	175.2	147.5	138.3	134.6	138.3
45°	274.7	250.8	208.4	177.0	154.9	166.0	143.8	121.7	110.6	110.6	108.8
47.5°	260.0	237.9	191.8	153.0	129.1	123.5	118.0	97.7	86.7	84.8	86.7
50°	247.1	225.0	173.3	132.8	108.8	95.9	95.9	77.4	70.1	66.4	68.2
52.5°	234.2	210.2	156.7	118.0	94.0	77.4	68.2	62.7	57.2	55.3	57.2
55°	215.7	191.8	140.1	101.4	81.1	64.5	53.5	51.6	47.9	44.3	47.9
57.5°	193.6	171.5	123.5	86.7	64.5	49.8	44.3	42.4	38.7	36.9	36.9
59°	180.7	160.4	114.3	75.6	57.2	44.3	40.6	38.7	35.0	31.3	33.2
60°	173.3	156.7	108.8	70.1	51.6	40.6	36.9	35.0	31.3	29.5	31.3
62.5°	153.0	140.1	95.9	57.2	40.6	29.5	25.8	27.7	25.8	24.0	25.8
65°	134.6	123.5	81.1	44.3	31.3	20.3	18.4	24.0	22.1	20.3	22.1
67.5°	119.9	106.9	68.2	33.2	22.1	11.1	12.9	20.3	20.3	18.4	20.3
70°	103.3	92.2	55.3	24.0	11.1	5.5	9.2	14.8	18.4	16.6	18.4
72.5°	84.8	71.9	42.4	16.6	5.5	0.0	5.5	12.9	18.4	16.6	18.4
75°	66.4	53.5	31.3	9.2	0.0	0.0	1.8	11.1	18.4	16.6	18.4
77.5°	47.9	38.7	18.4	1.8	0.0	0.0	1.8	11.1	18.4	16.6	18.4
80°	31.3	27.7	7.4	0.0	0.0	0.0	1.8	11.1	18.4	18.4	20.3
82.5°	20.3	14.8	0.0	0.0	0.0	0.0	3.7	14.8	20.3	22.1	22.1
85°	9.2	0.0	0.0	0.0	0.0	0.0	7.4	18.4	24.0	24.0	24.0
87.5°	0.0	0.0	0.0	0.0	0.0	3.7	12.9	22.1	27.7	27.7	27.7
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°	8017.3	8017.3	8017.3	8017.3	8017.3	8017.3	8017.3	8017.3	8017.3	8017.3	8017.3
2.5°	6593.8	6710.0	6874.1	7126.7	7331.4	7654.0	7901.1	8238.6	8579.7	8682.9	8843.4
5°	4853.1	5002.5	5375.0	5714.3	5928.1	6610.4	7041.9	7722.3	8332.6	8625.8	8944.8
7.5°	3370.7	3547.7	3831.6	4305.5	4755.4	5310.4	6007.4	6785.6	7679.9	8098.4	8548.3
10°	2365.7	2587.0	2987.1	3376.2	3942.3	4469.6	5157.4	6016.7	7003.1	7497.3	8061.5
12.5°	1493.6	1690.9	2220.1	2657.1	3363.3	3975.5	4609.8	5387.9	6531.1	7038.2	7630.1
15°	853.7	1019.7	1266.8	1827.3	2611.0	3420.4	4211.5	5115.0	6289.5	6914.6	7554.5
17.5°	636.1	680.4	791.0	1108.2	1821.8	2767.7	3844.5	5032.0	6453.7	7187.5	7917.7
20°	534.7	564.2	615.9	741.2	1161.7	2131.6	3486.8	5046.8	6984.7	7906.7	8600.0
22.5°	479.4	497.9	540.3	621.4	792.9	1552.6	3068.3	5133.4	7628.2	8789.9	9590.1
25°	420.4	444.4	481.3	551.3	660.1	1076.8	2655.2	5327.0	8529.9	9911.0	10663.3
27.5°	374.3	396.4	433.3	497.9	579.0	822.4	2174.0	5493.0	9481.3	11039.4	11655.3
30°	328.2	350.3	387.2	438.8	512.6	665.6	1655.8	5590.7	10405.1	11885.8	12359.7
32.5°	289.5	307.9	343.0	389.1	449.9	564.2	1305.5	5489.3	11111.4	12654.7	12971.8
35°	250.8	272.9	302.4	344.8	398.3	481.3	1086.1	5139.0	11718.0	13445.7	13560.1
37.5°	210.2	236.0	267.4	306.1	348.5	442.5	872.2	4751.7	12367.0	14432.2	14244.1
40°	177.0	201.0	230.5	272.9	311.6	405.7	671.2	4338.7	13067.7	15357.9	14990.9
42.5°	143.8	169.6	204.7	243.4	307.9	354.0	520.0	3910.9	13696.5	16163.6	15665.8
45°	114.3	136.4	173.3	223.1	306.1	304.2	402.0	3488.7	14170.4	16738.9	16169.2
47.5°	90.4	108.8	145.7	217.6	282.1	258.1	322.7	3226.8	14668.2	17257.1	16554.6
50°	71.9	90.4	125.4	226.8	247.1	221.3	271.1	3269.2	15149.5	17520.8	16713.1
52.5°	60.8	79.3	108.8	178.9	189.9	193.6	237.9	3464.7	15770.9	17802.9	17028.4
55°	53.5	70.1	92.2	125.4	147.5	173.3	217.6	3606.7	16602.5	18407.7	17723.6
57.5°	42.4	60.8	83.0	106.9	121.7	151.2	201.0	3617.7	17354.8	19184.0	18647.4
59°	38.7	55.3	77.4	101.4	108.8	136.4	189.9	3523.7	17382.5	19300.1	19071.5
60°	35.0	53.5	73.8	94.0	103.3	129.1	180.7	3414.9	17131.7	19115.7	19246.6
62.5°	29.5	46.1	64.5	75.6	88.5	106.9	156.7	3020.3	15916.6	18280.4	18922.1
65°	25.8	40.6	55.3	62.7	73.8	92.2	138.3	2417.4	14574.2	17148.3	17992.8
67.5°	24.0	36.9	47.9	53.5	64.5	84.8	123.5	1707.5	12835.4	15711.9	16597.0
70°	22.1	35.0	42.4	49.8	57.2	71.9	105.1	995.7	9887.0	13193.1	14128.0
72.5°	22.1	33.2	36.9	42.4	49.8	64.5	97.7	538.4	6759.7	10064.0	11271.8
75°	22.1	31.3	33.2	36.9	44.3	59.0	86.7	282.1	4370.0	6992.1	8629.5
77.5°	22.1	29.5	33.2	35.0	42.4	51.6	75.6	177.0	2911.5	4897.4	5832.3
80°	24.0	29.5	31.3	35.0	40.6	47.9	62.7	118.0	1711.1	2946.6	3549.5
82.5°	25.8	29.5	33.2	36.9	42.4	46.1	55.3	73.8	789.2	1949.0	2205.3
85°	27.7	31.3	35.0	38.7	44.3	46.1	51.6	53.5	129.1	879.5	1189.3
87.5°	29.5	33.2	36.9	40.6	47.9	47.9	47.9	47.9	44.3	94.0	239.7
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-SA8B-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8017.3	8017.3	8017.3	8017.3	8017.3	8017.3	8017.3	8017.3	8017.3	8017.3
2.5°	9046.2	9254.5	9400.2	9437.1	9332.0	9284.0	9151.3	8944.8	8819.4	8813.9
5°	9533.0	10021.6	10360.9	10418.0	10215.2	9872.3	9464.7	8939.2	8631.3	8539.1
7.5°	9450.0	10305.6	10851.4	10930.7	10589.5	9934.9	9145.8	8299.4	7963.8	7821.8
10°	9108.9	10152.5	10932.5	11057.9	10602.4	9680.5	8677.4	7733.3	7316.6	7207.8
12.5°	8817.5	9872.3	10565.6	10738.9	10394.1	9474.0	8397.1	7370.1	6923.9	6822.4
15°	8690.3	9540.3	9964.4	10053.0	9995.8	9344.9	8367.6	7314.8	6804.0	6693.4
17.5°	8817.5	9258.2	9311.7	9402.1	9529.3	9332.0	8651.6	7615.3	7064.0	6927.5
20°	9151.3	9013.0	8791.7	8830.4	9121.8	9385.5	9156.8	8281.0	7609.8	7464.1
22.5°	9719.2	8952.1	8450.6	8417.4	8786.2	9564.3	9898.1	9182.6	8404.5	8260.7
25°	10416.2	9105.2	8325.2	8253.3	8655.3	9826.2	10703.9	10287.1	9437.1	9217.7
27.5°	11175.9	9422.3	8325.2	8255.1	8644.2	10058.5	11393.5	11264.4	10506.6	10266.8
30°	11592.6	9684.2	8445.1	8365.8	8780.7	10193.1	11762.2	12132.9	11310.5	11013.6
32.5°	11965.1	10047.4	8679.2	8529.9	9066.5	10392.2	12092.3	12870.4	11950.3	11751.2
35°	12308.0	10436.5	9001.9	8828.6	9442.6	10665.1	12457.4	13644.9	12840.9	12540.4
37.5°	12686.0	10888.2	9505.3	9357.8	10071.4	11196.2	12890.7	14662.7	13716.8	13338.8
40°	13097.2	11411.9	10333.2	10270.5	11070.8	11797.3	13438.4	15748.8	14716.2	14286.6
42.5°	13515.8	12014.9	11347.4	11450.6	12202.9	12639.9	14000.7	16584.1	15534.9	15061.0
45°	13895.6	12785.6	12665.8	13176.5	13523.2	13462.3	14417.5	17172.3	16248.5	15794.9
47.5°	14375.1	13908.6	14260.7	15048.1	15057.3	14356.6	14732.8	17653.5	16862.5	16408.9
50°	14911.6	15234.3	16320.4	17122.5	16906.7	15236.2	15101.6	18223.3	17496.8	17133.5
52.5°	15533.0	16718.7	18223.3	19113.9	18610.5	16195.0	15715.6	18839.1	18503.6	18155.1
55°	16255.8	17731.0	20120.7	20830.6	20323.5	17386.2	16648.6	19674.4	19641.2	19403.4
57.5°	17072.7	18800.4	21219.6	22180.3	21728.5	18783.8	17952.2	20461.8	20336.4	20203.6
59°	17718.1	19349.9	21704.6	22700.3	22427.4	19762.9	18828.1	20952.3	20496.8	20297.7
60°	18109.0	19722.4	21883.4	22770.3	22707.7	20345.6	19383.1	21192.0	20495.0	20218.4
62.5°	19268.8	20373.3	21815.2	22458.7	22704.0	21463.0	21011.3	21455.6	20115.1	19709.5
65°	19681.8	20157.5	20684.9	20605.6	20815.8	21405.9	22051.2	21166.1	19303.8	18726.7
67.5°	18877.9	17791.8	17978.0	17448.8	17345.6	19030.9	21629.0	19750.0	17716.2	17010.0
70°	15912.9	13630.1	13536.1	13779.5	13112.0	15407.6	19421.8	17022.9	15096.0	14295.8
72.5°	12525.6	9632.5	8839.7	9735.8	9715.5	11754.9	16134.1	12079.4	10198.6	10130.4
75°	9850.1	6706.3	5885.7	6031.4	6311.7	8509.6	12850.2	7670.6	6280.3	5723.5
77.5°	6612.2	4751.7	4432.7	4253.9	4556.3	5463.5	8129.8	4159.8	3521.9	3335.6
80°	3811.3	3451.8	3920.1	3558.7	3721.0	3442.6	4043.7	1908.4	1583.9	1714.8
82.5°	2480.0	1965.6	2094.7	1556.3	2127.9	2146.3	1298.1	564.2	477.6	507.1
85°	1550.7	922.0	518.1	368.8	733.9	1349.7	405.7	35.0	40.6	35.0
87.5°	402.0	153.0	64.5	95.9	118.0	105.1	94.0	5.5	1.8	3.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)