

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: P456961

Luminaire Tested: **GALN-SA8B-730-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456961
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-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 30052 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

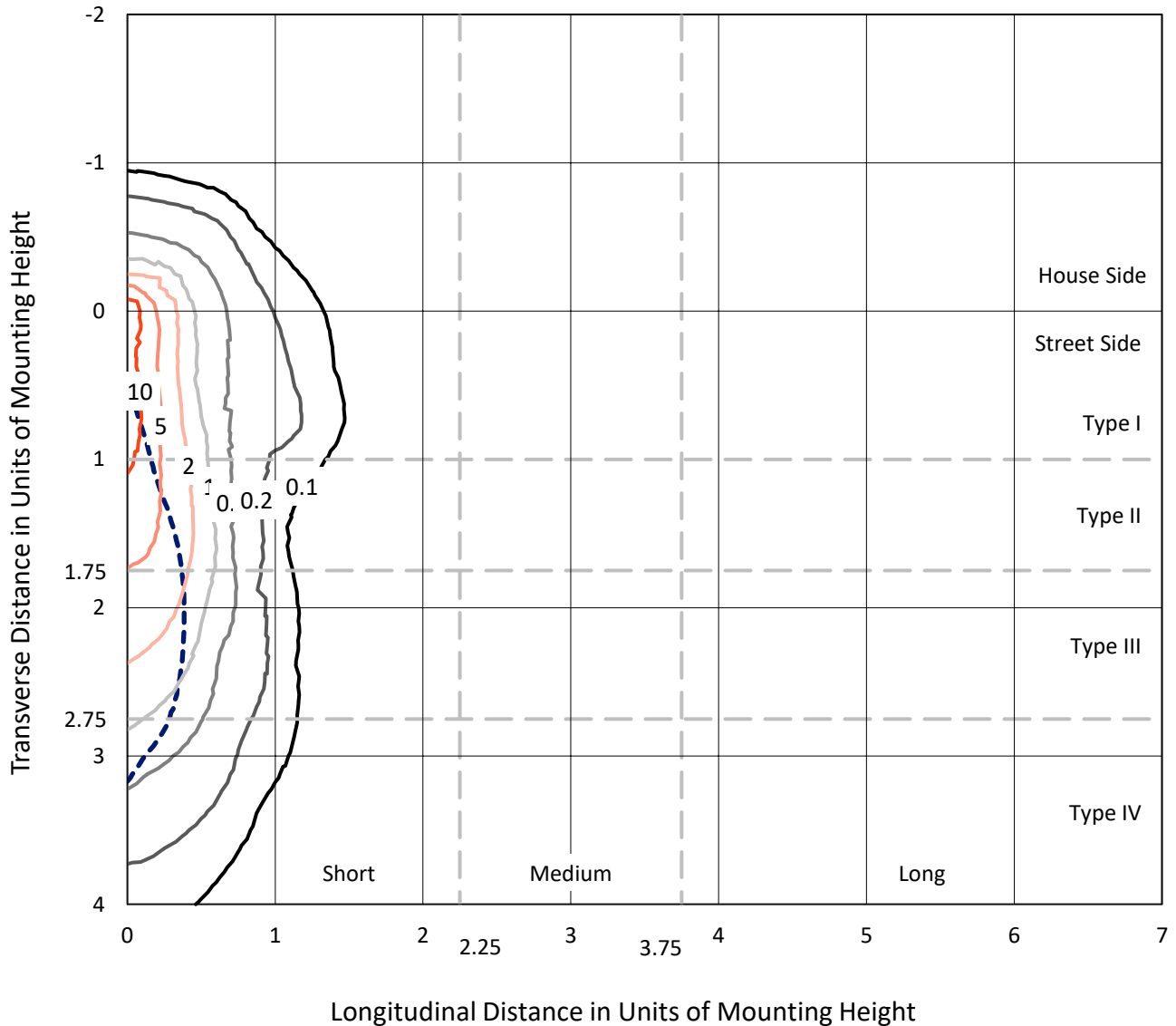
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

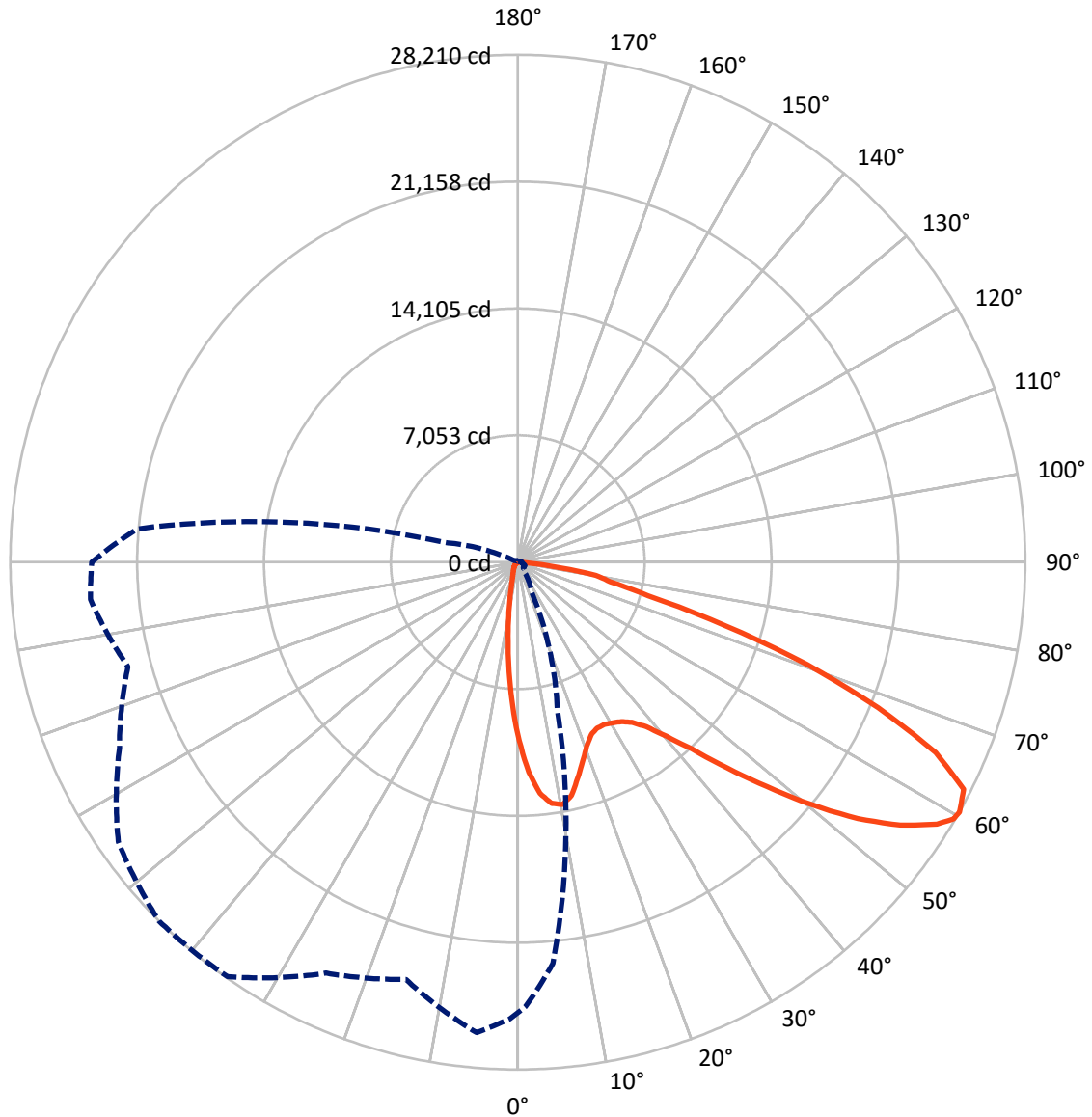
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 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	3706.6	0.0	3706.6
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	26345.4	0.0	26345.4
	% Fixture	87.7	0.0	87.7
Total	Lumens	30052.0	0.0	30052.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	738.8	2.5
10°-20°	1467.2	4.9
20°-30°	2151.3	7.2
30°-40°	3199.3	10.6
40°-50°	4656.0	15.5
50°-60°	6714.3	22.3
60°-70°	7385.0	24.6
70°-80°	3307.9	11.0
80°-90°	432.2	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°	30052.0	100.0
0°-180°	30052.0	100.0

Coefficient of Utilization



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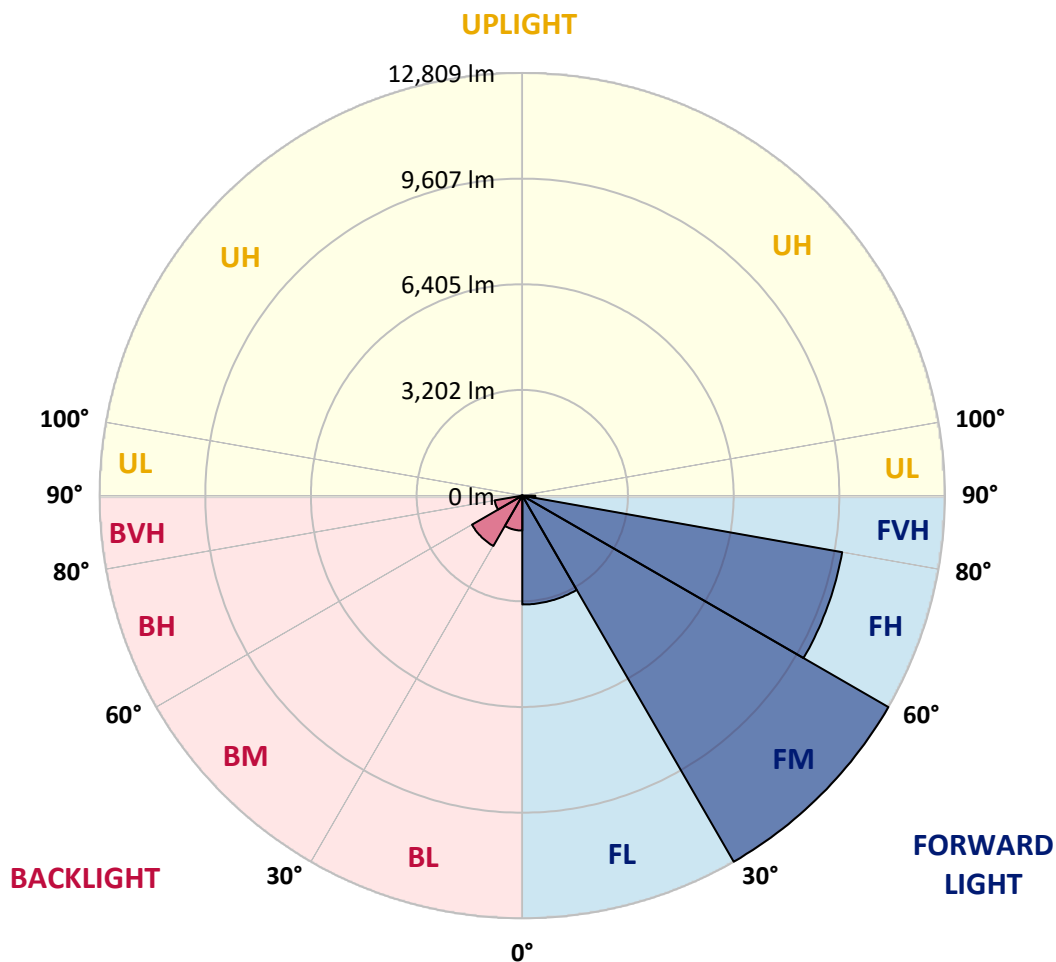
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3298.1	11.0			
FM (30°-60°)	12809.1	42.6			
FH (60°-80°)	9842.9	32.8			G4/12000
FVH (80°-90°)	395.3	1.3			G3/500
BL (0°-30°)	1059.1	3.5	B3/2500		
BM (30°-60°)	1760.6	5.9	B2/2500		
BH (60°-80°)	850.0	2.8	B2/1000		G2/1000
BVH (80°-90°)	36.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9932.6	9932.6	9932.6	9932.6	9932.6	9932.6	9932.6	9932.6	9932.6	9932.6	9932.6
2.5°	10919.5	10871.5	10761.9	10428.3	10138.2	9759.0	9375.2	9073.7	8888.6	8548.3	8392.9
5°	10579.1	10601.9	10284.4	9599.1	8836.1	8315.3	7746.4	7294.1	6796.1	6480.9	6149.6
7.5°	9690.5	9644.8	9299.8	8345.0	7417.5	6663.6	5944.0	5359.2	4991.4	4696.7	4450.0
10°	8929.8	8895.5	8454.6	7225.6	6229.6	5665.3	5178.8	4667.1	4271.8	3840.1	3495.1
12.5°	8452.3	8374.6	7867.5	6583.7	5772.7	5247.3	4717.3	4185.0	3639.1	3202.7	2784.7
15°	8292.4	8180.5	7616.2	6362.1	5480.3	4813.3	4148.5	3536.3	2908.1	2426.0	2110.8
17.5°	8582.5	8397.5	7796.7	6323.2	5130.8	4246.7	3428.9	2631.6	1978.3	1610.5	1416.3
20°	9247.3	9034.8	8253.6	6284.4	4742.4	3611.7	2606.5	1859.5	1368.4	1167.3	1060.0
22.5°	10234.2	9941.8	8929.8	6346.1	4383.8	2992.6	1882.4	1313.5	1087.4	961.7	886.4
25°	11419.8	11175.3	9786.4	6565.4	4100.5	2506.0	1455.2	1073.7	916.0	838.4	781.3
27.5°	12719.6	12329.0	10894.4	6828.1	3842.4	2129.1	1277.0	959.5	815.5	744.7	715.0
30°	13644.8	13341.0	11821.8	7010.9	3520.3	1845.8	1167.3	945.7	817.8	733.3	678.5
32.5°	14558.5	14170.2	12598.5	7095.4	3285.0	1649.3	1009.7	824.7	717.3	673.9	619.1
35°	15536.3	15129.6	13372.9	7049.7	3109.1	1519.1	916.0	735.6	614.5	541.4	486.6
37.5°	16525.4	16096.0	14142.8	6885.2	2999.4	1466.6	842.9	699.0	580.2	504.9	445.5
40°	17699.6	17126.2	14864.7	6750.4	2885.2	1439.2	795.0	676.2	555.1	475.2	415.8
42.5°	18659.1	18113.1	15547.7	6679.6	2807.5	1375.2	795.0	657.9	539.1	450.0	388.3
45°	19568.3	19001.7	16285.6	6736.7	2775.6	1295.3	804.1	655.6	527.7	431.8	370.1
47.5°	20329.0	19837.8	17044.0	6951.5	2734.4	1208.5	756.1	687.6	520.8	415.8	351.8
50°	21226.7	20751.6	18046.8	7385.5	2661.3	1121.6	696.7	740.1	518.6	402.1	335.8
52.5°	22492.3	21978.3	19431.2	7878.9	2544.8	989.1	641.9	733.3	509.4	379.2	319.8
55°	24038.8	23623.1	21034.8	8470.6	2384.9	840.7	555.1	651.1	482.0	340.4	292.4
57.5°	25030.3	24676.2	22236.4	8726.4	2140.5	687.6	488.9	546.0	440.9	303.8	260.4
59°	25146.8	24827.0	22487.7	8641.9	1980.6	628.2	456.9	468.3	429.5	283.3	242.1
60°	25048.6	24717.3	22387.2	8477.4	1832.1	587.1	429.5	415.8	431.8	271.8	228.4
62.5°	24418.1	23851.5	21411.8	7643.6	1601.4	539.1	381.5	340.4	381.5	244.4	203.3
65°	23200.5	22350.7	19481.5	6469.4	1510.0	511.7	324.4	285.6	290.1	214.7	175.9
67.5°	21073.7	20002.3	16911.5	5256.4	1471.2	514.0	274.1	255.9	223.9	182.8	155.3
70°	17711.0	16641.9	13569.4	4324.4	1452.9	514.0	233.0	219.3	187.3	153.1	134.8
72.5°	12550.5	11399.2	9153.6	3396.9	1309.0	511.7	198.7	198.7	153.1	127.9	109.7
75°	7090.8	7099.9	5754.4	2403.2	1087.4	422.6	159.9	157.6	111.9	98.2	82.2
77.5°	4132.5	4059.4	3878.9	1032.6	504.9	191.9	111.9	95.9	77.7	70.8	59.4
80°	2124.5	1747.6	1701.9	374.6	180.5	121.1	77.7	54.8	50.3	45.7	41.1
82.5°	628.2	630.5	562.0	150.8	100.5	80.0	38.8	29.7	27.4	25.1	25.1
85°	43.4	27.4	32.0	45.7	61.7	32.0	2.3	6.9	6.9	9.1	11.4
87.5°	4.6	2.3	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°	9932.6	9932.6	9932.6	9932.6	9932.6	9932.6	9932.6	9932.6	9932.6	9932.6	9932.6
2.5°	8221.6	8322.1	8134.8	8139.4	7984.0	8034.3	7851.5	7910.9	7803.5	7885.8	8127.9
5°	6186.2	6209.0	6058.3	6010.3	6033.1	6126.8	6163.3	5996.6	6067.4	5928.0	5918.9
7.5°	4358.7	4386.1	4299.3	4287.8	4452.3	4413.5	4484.3	4313.0	4150.8	4221.6	4091.4
10°	3385.5	3271.3	3093.1	3042.8	3010.9	3031.4	3031.4	2876.1	2853.2	2791.5	2885.2
12.5°	2672.8	2533.4	2364.4	2135.9	2078.8	2074.2	1989.7	1852.7	1809.3	1756.7	1834.4
15°	1941.7	1884.6	1743.0	1615.1	1484.9	1459.7	1322.7	1210.7	1062.3	1041.7	1034.8
17.5°	1366.1	1281.6	1279.3	1206.2	1130.8	1080.5	952.6	824.7	767.6	760.7	760.7
20°	1023.4	993.7	945.7	936.6	913.8	856.7	742.4	673.9	646.5	648.8	657.9
22.5°	861.2	840.7	797.3	776.7	767.6	717.3	632.8	587.1	573.4	573.4	575.7
25°	769.8	751.6	703.6	671.6	660.2	623.6	557.4	523.1	511.7	511.7	511.7
27.5°	701.3	678.5	628.2	600.8	580.2	539.1	498.0	463.7	452.3	452.3	454.6
30°	653.3	628.2	582.5	546.0	514.0	477.4	443.2	413.5	399.8	397.5	399.8
32.5°	589.4	566.5	520.8	498.0	461.5	418.0	390.6	363.2	349.5	351.8	349.5
35°	459.2	452.3	420.3	427.2	406.6	370.1	344.9	315.2	299.3	297.0	301.5
37.5°	418.0	390.6	354.1	356.4	349.5	335.8	294.7	262.7	251.3	251.3	253.6
40°	386.1	358.7	317.5	297.0	299.3	299.3	255.9	221.6	210.2	207.9	212.5
42.5°	358.7	331.2	285.6	251.3	242.1	253.6	217.0	182.8	171.3	166.8	171.3
45°	340.4	310.7	258.1	219.3	191.9	205.6	178.2	150.8	137.1	137.1	134.8
47.5°	322.1	294.7	237.6	189.6	159.9	153.1	146.2	121.1	107.4	105.1	107.4
50°	306.1	278.7	214.7	164.5	134.8	118.8	118.8	95.9	86.8	82.2	84.5
52.5°	290.1	260.4	194.2	146.2	116.5	95.9	84.5	77.7	70.8	68.5	70.8
55°	267.3	237.6	173.6	125.6	100.5	80.0	66.2	64.0	59.4	54.8	59.4
57.5°	239.9	212.5	153.1	107.4	80.0	61.7	54.8	52.5	48.0	45.7	45.7
59°	223.9	198.7	141.6	93.7	70.8	54.8	50.3	48.0	43.4	38.8	41.1
60°	214.7	194.2	134.8	86.8	64.0	50.3	45.7	43.4	38.8	36.6	38.8
62.5°	189.6	173.6	118.8	70.8	50.3	36.6	32.0	34.3	32.0	29.7	32.0
65°	166.8	153.1	100.5	54.8	38.8	25.1	22.8	29.7	27.4	25.1	27.4
67.5°	148.5	132.5	84.5	41.1	27.4	13.7	16.0	25.1	25.1	22.8	25.1
70°	127.9	114.2	68.5	29.7	13.7	6.9	11.4	18.3	22.8	20.6	22.8
72.5°	105.1	89.1	52.5	20.6	6.9	0.0	6.9	16.0	22.8	20.6	22.8
75°	82.2	66.2	38.8	11.4	0.0	0.0	2.3	13.7	22.8	20.6	22.8
77.5°	59.4	48.0	22.8	2.3	0.0	0.0	2.3	13.7	22.8	20.6	22.8
80°	38.8	34.3	9.1	0.0	0.0	0.0	2.3	13.7	22.8	22.8	25.1
82.5°	25.1	18.3	0.0	0.0	0.0	0.0	4.6	18.3	25.1	27.4	27.4
85°	11.4	0.0	0.0	0.0	0.0	0.0	9.1	22.8	29.7	29.7	29.7
87.5°	0.0	0.0	0.0	0.0	0.0	4.6	16.0	27.4	34.3	34.3	34.3
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°	9932.6	9932.6	9932.6	9932.6	9932.6	9932.6	9932.6	9932.6	9932.6	9932.6	9932.6
2.5°	8169.1	8313.0	8516.3	8829.2	9082.8	9482.6	9788.7	10206.7	10629.4	10757.3	10956.0
5°	6012.6	6197.6	6659.1	7079.4	7344.4	8189.6	8724.2	9567.1	10323.2	10686.5	11081.7
7.5°	4175.9	4395.2	4747.0	5334.1	5891.5	6579.1	7442.6	8406.6	9514.6	10033.1	10590.5
10°	2930.9	3205.0	3700.7	4182.8	4884.1	5537.4	6389.5	7454.0	8676.2	9288.4	9987.4
12.5°	1850.4	2094.8	2750.4	3291.8	4166.8	4925.2	5711.0	6675.0	8091.4	8719.6	9452.9
15°	1057.7	1263.3	1569.4	2263.9	3234.7	4237.6	5217.6	6337.0	7792.1	8566.5	9359.2
17.5°	788.1	842.9	980.0	1372.9	2257.0	3428.9	4763.0	6234.2	7995.4	8904.6	9809.3
20°	662.5	699.0	763.0	918.3	1439.2	2640.8	4319.8	6252.4	8653.3	9795.6	10654.5
22.5°	593.9	616.8	669.3	769.8	982.3	1923.5	3801.3	6359.8	9450.6	10889.8	11881.2
25°	520.8	550.5	596.2	683.0	817.8	1334.1	3289.6	6599.7	10567.7	12278.7	13210.7
27.5°	463.7	491.1	536.8	616.8	717.3	1018.8	2693.3	6805.3	11746.4	13676.8	14439.8
30°	406.6	434.0	479.7	543.7	635.1	824.7	2051.4	6926.3	12890.9	14725.3	15312.4
32.5°	358.7	381.5	424.9	482.0	557.4	699.0	1617.4	6800.7	13765.9	15677.9	16070.8
35°	310.7	338.1	374.6	427.2	493.4	596.2	1345.5	6366.7	14517.4	16657.9	16799.6
37.5°	260.4	292.4	331.2	379.2	431.8	548.3	1080.5	5886.9	15321.5	17880.1	17647.1
40°	219.3	249.0	285.6	338.1	386.1	502.6	831.5	5375.2	16189.6	19026.9	18572.3
42.5°	178.2	210.2	253.6	301.5	381.5	438.6	644.2	4845.2	16968.6	20025.1	19408.3
45°	141.6	169.0	214.7	276.4	379.2	376.9	498.0	4322.1	17555.7	20737.9	20032.0
47.5°	111.9	134.8	180.5	269.6	349.5	319.8	399.8	3997.7	18172.5	21379.8	20509.4
50°	89.1	111.9	155.3	281.0	306.1	274.1	335.8	4050.3	18768.7	21706.5	20705.9
52.5°	75.4	98.2	134.8	221.6	235.3	239.9	294.7	4292.4	19538.6	22056.0	21096.5
55°	66.2	86.8	114.2	155.3	182.8	214.7	269.6	4468.3	20568.8	22805.3	21957.8
57.5°	52.5	75.4	102.8	132.5	150.8	187.3	249.0	4482.0	21500.9	23767.0	23102.2
59°	48.0	68.5	95.9	125.6	134.8	169.0	235.3	4365.5	21535.1	23910.9	23627.7
60°	43.4	66.2	91.4	116.5	127.9	159.9	223.9	4230.7	21224.5	23682.5	23844.7
62.5°	36.6	57.1	80.0	93.7	109.7	132.5	194.2	3741.9	19719.0	22647.6	23442.6
65°	32.0	50.3	68.5	77.7	91.4	114.2	171.3	2994.9	18056.0	21245.0	22291.3
67.5°	29.7	45.7	59.4	66.2	80.0	105.1	153.1	2115.4	15901.8	19465.5	20562.0
70°	27.4	43.4	52.5	61.7	70.8	89.1	130.2	1233.6	12249.0	16345.0	17503.2
72.5°	27.4	41.1	45.7	52.5	61.7	80.0	121.1	667.0	8374.6	12468.3	13964.6
75°	27.4	38.8	41.1	45.7	54.8	73.1	107.4	349.5	5414.1	8662.5	10691.0
77.5°	27.4	36.6	41.1	43.4	52.5	64.0	93.7	219.3	3607.1	6067.4	7225.6
80°	29.7	36.6	38.8	43.4	50.3	59.4	77.7	146.2	2119.9	3650.5	4397.5
82.5°	32.0	36.6	41.1	45.7	52.5	57.1	68.5	91.4	977.7	2414.6	2732.2
85°	34.3	38.8	43.4	48.0	54.8	57.1	64.0	66.2	159.9	1089.7	1473.4
87.5°	36.6	41.1	45.7	50.3	59.4	59.4	59.4	59.4	54.8	116.5	297.0
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-SA8B-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9932.6	9932.6	9932.6	9932.6	9932.6	9932.6	9932.6	9932.6	9932.6	9932.6
2.5°	11207.3	11465.5	11645.9	11691.6	11561.4	11502.0	11337.5	11081.7	10926.3	10919.5
5°	11810.4	12415.8	12836.1	12906.9	12655.6	12230.7	11725.9	11074.8	10693.3	10579.1
7.5°	11707.6	12767.6	13443.8	13542.0	13119.4	12308.4	11330.7	10282.1	9866.4	9690.5
10°	11285.0	12578.0	13544.3	13699.6	13135.4	11993.2	10750.4	9580.8	9064.5	8929.8
12.5°	10924.0	12230.7	13089.7	13304.4	12877.2	11737.3	10403.2	9130.8	8578.0	8452.3
15°	10766.4	11819.5	12345.0	12454.6	12383.8	11577.4	10366.7	9062.3	8429.5	8292.4
17.5°	10924.0	11470.0	11536.3	11648.2	11805.8	11561.4	10718.5	9434.6	8751.6	8582.5
20°	11337.5	11166.2	10892.1	10940.0	11301.0	11627.6	11344.4	10259.3	9427.8	9247.3
22.5°	12041.1	11090.8	10469.5	10428.3	10885.2	11849.2	12262.7	11376.4	10412.3	10234.2
25°	12904.6	11280.4	10314.1	10225.0	10723.0	12173.6	13261.0	12744.7	11691.6	11419.8
27.5°	13845.8	11673.3	10314.1	10227.3	10709.3	12461.5	14115.4	13955.5	13016.6	12719.6
30°	14362.1	11997.7	10462.6	10364.4	10878.4	12628.2	14572.3	15031.4	14012.6	13644.8
32.5°	14823.5	12447.8	10752.7	10567.7	11232.4	12874.9	14981.2	15945.2	14805.3	14558.5
35°	15248.4	12929.8	11152.5	10937.8	11698.5	13213.0	15433.5	16904.6	15908.6	15536.3
37.5°	15716.7	13489.4	11776.1	11593.4	12477.4	13870.9	15970.3	18165.6	16993.7	16525.4
40°	16226.2	14138.2	12801.8	12724.2	13715.6	14615.7	16648.8	19511.1	18231.9	17699.6
42.5°	16744.7	14885.2	14058.3	14186.2	15118.2	15659.6	17345.5	20546.0	19246.2	18659.1
45°	17215.3	15840.1	15691.6	16324.4	16753.9	16678.5	17861.8	21274.7	20130.2	19568.3
47.5°	17809.3	17231.3	17667.6	18643.1	18654.5	17786.4	18252.4	21870.9	20890.9	20329.0
50°	18474.0	18873.8	20219.3	21213.0	20945.8	18876.1	18709.3	22576.8	21676.8	21226.7
52.5°	19243.9	20712.7	22576.8	23680.2	23056.6	20064.0	19470.0	23339.8	22924.1	22492.3
55°	20139.4	21966.9	24927.5	25807.0	25178.8	21539.7	20625.9	24374.7	24333.5	24038.8
57.5°	21151.4	23291.8	26289.0	27479.2	26919.5	23271.3	22241.0	25350.1	25194.8	25030.3
59°	21950.9	23972.6	26889.8	28123.4	27785.3	24484.3	23326.1	25957.8	25393.5	25146.8
60°	22435.2	24434.1	27111.4	28210.2	28132.5	25206.2	24013.7	26254.7	25391.2	25048.6
62.5°	23872.1	25240.4	27026.9	27824.1	28127.9	26590.5	26030.9	26581.4	24920.6	24418.1
65°	24383.8	24973.2	25626.5	25528.3	25788.7	26519.7	27319.3	26222.7	23915.5	23200.5
67.5°	23387.8	22042.3	22273.0	21617.4	21489.4	23577.4	26796.1	24468.3	21948.6	21073.7
70°	19714.5	16886.4	16769.9	17071.4	16244.4	19088.5	24061.7	21089.7	18702.5	17711.0
72.5°	15518.0	11933.8	10951.5	12061.7	12036.6	14563.1	19988.6	14965.2	12635.1	12550.5
75°	12203.3	8308.4	7291.8	7472.3	7819.5	10542.6	15920.1	9503.1	7780.7	7090.8
77.5°	8191.9	5886.9	5491.7	5270.1	5644.8	6768.7	10072.0	5153.6	4363.2	4132.5
80°	4721.9	4276.4	4856.7	4408.9	4609.9	4265.0	5009.7	2364.4	1962.3	2124.5
82.5°	3072.5	2435.2	2595.1	1928.0	2636.2	2659.1	1608.2	699.0	591.7	628.2
85°	1921.2	1142.2	641.9	456.9	909.2	1672.2	502.6	43.4	50.3	43.4
87.5°	498.0	189.6	80.0	118.8	146.2	130.2	116.5	6.9	2.3	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)