

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: P529587

Luminaire Tested: **GALN-SA4D-730-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529587
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-730-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 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: 15408 lumens
Efficiency: N/A
Efficacy: 62.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G1

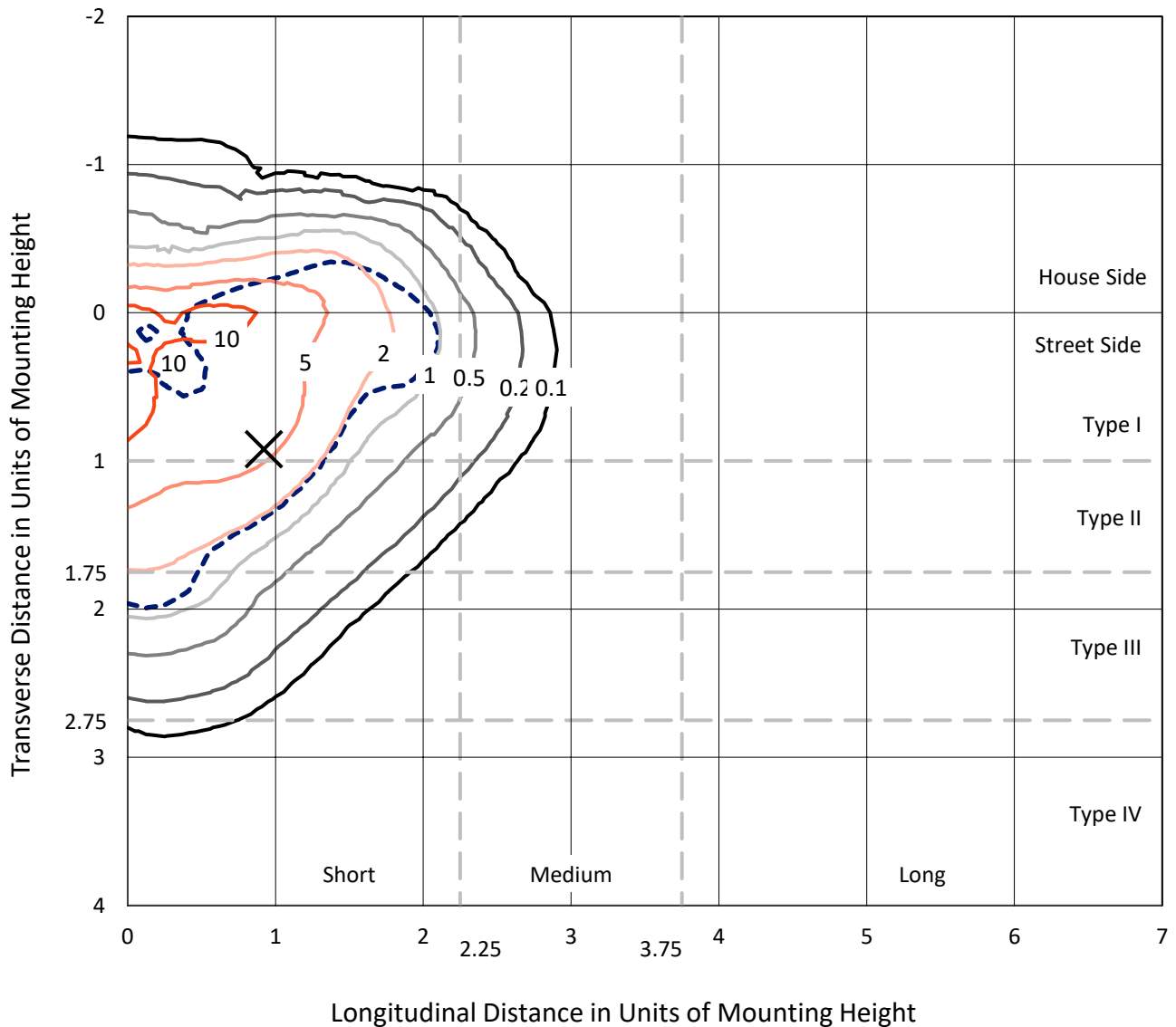
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

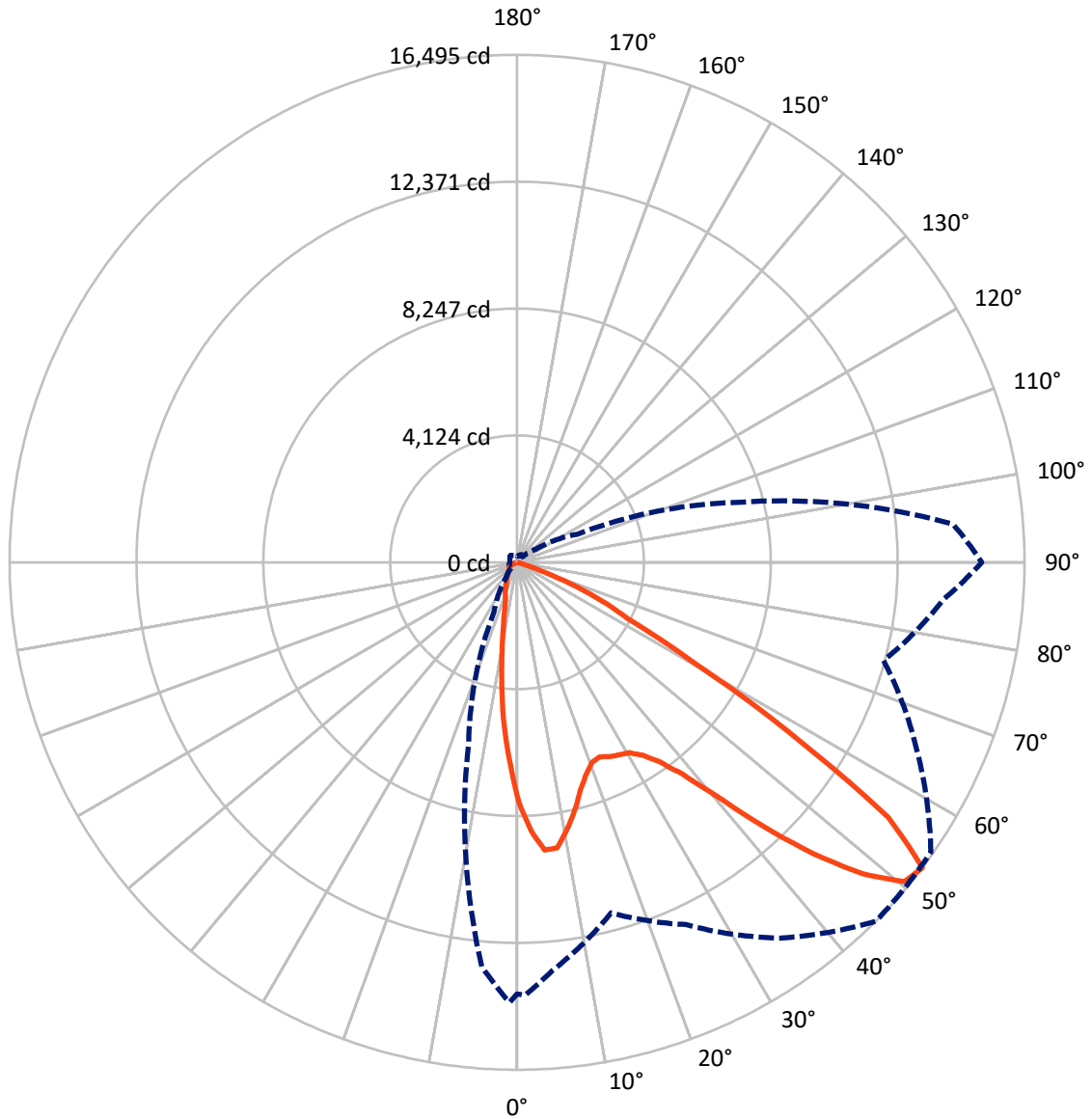
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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	3127.1	0.0	3127.1
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	12280.9	0.0	12280.9
	% Fixture	79.7	0.0	79.7
Total	Lumens	15408.0	0.0	15408.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.8	3.7
10°-20°	1124.1	7.3
20°-30°	1710.7	11.1
30°-40°	2556.9	16.6
40°-50°	3641.2	23.6
50°-60°	3914.2	25.4
60°-70°	1734.5	11.3
70°-80°	140.3	0.9
80°-90°	16.4	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°	15408.0	100.0
0°-180°	15408.0	100.0

Coefficient of Utilization

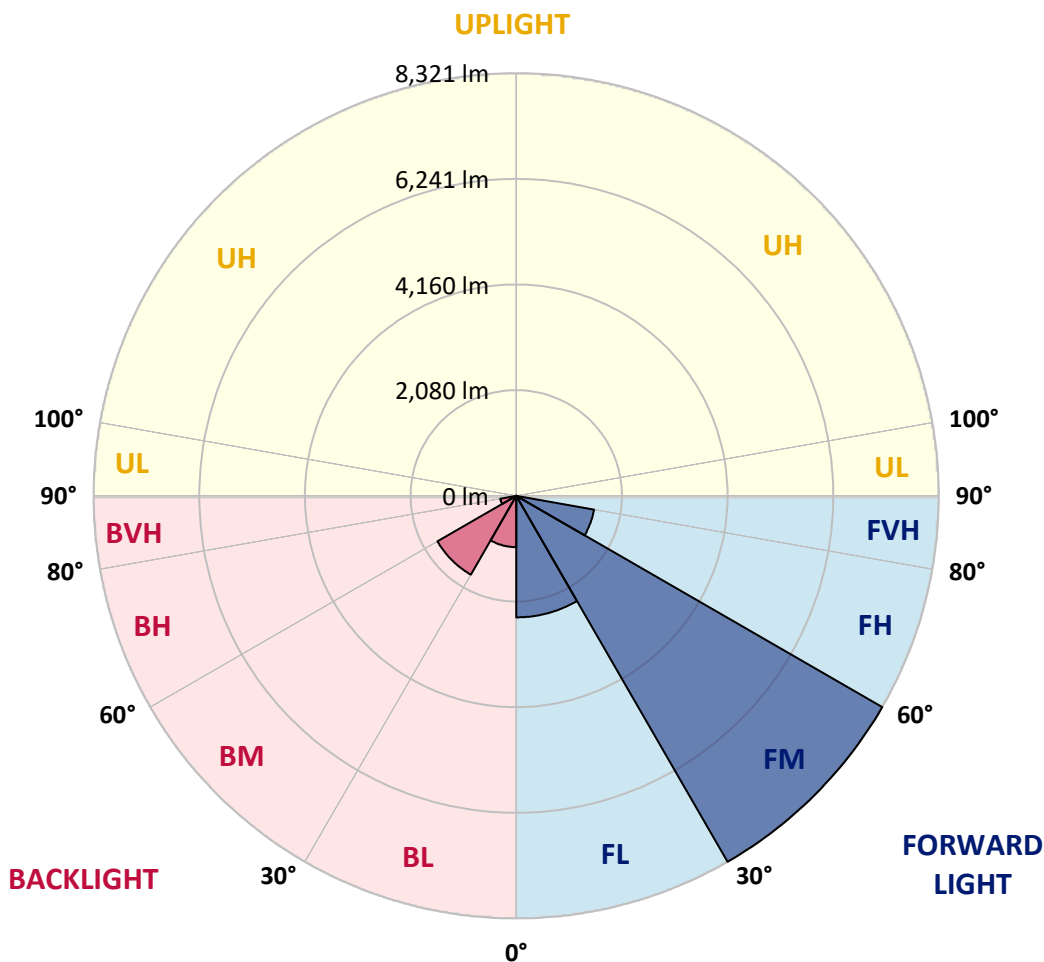


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2393.2	15.5			
FM	(30°-60°)	8320.8	54.0			
FH	(60°-80°)	1554.9	10.1			G1/1800
FVH	(80°-90°)	12.1	0.1			G1/100
BL	(0°-30°)	1011.4	6.6	B3/2500		
BM	(30°-60°)	1791.5	11.6	B2/2500		
BH	(60°-80°)	320.0	2.1	B1/500		G1/500
BVH	(80°-90°)	4.2	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°	7812.6	7812.6	7812.6	7812.6	7812.6	7812.6	7812.6	7812.6	7812.6	7812.6	7812.6
2.5°	8267.1	8291.4	8424.7	8591.4	8679.3	8879.3	8739.9	8776.3	8700.5	8433.8	8224.7
5°	8015.6	8012.6	8182.3	8594.4	8985.4	9382.4	9394.5	9182.3	8809.6	8400.5	7815.6
7.5°	7258.0	7376.2	7552.0	8209.6	8933.8	9230.8	9373.3	9124.8	8552.0	7967.1	7333.8
10°	6685.2	6745.8	7042.8	7836.8	8367.1	8764.1	8852.0	8709.6	8270.2	7539.8	6830.7
12.5°	6354.9	6385.2	6733.7	7400.4	7961.1	8255.0	8297.4	8364.1	8048.9	7364.1	6512.5
15°	6357.9	6382.2	6851.9	7409.5	7630.7	7552.0	7691.4	7688.3	7824.7	7330.7	6779.2
17.5°	6815.5	6842.8	7267.1	7542.9	7445.9	7261.0	7251.9	7391.3	7679.2	7745.9	7182.2
20°	7603.5	7667.1	7979.2	7964.1	7418.6	7045.9	6942.8	7048.9	7718.6	8097.4	7994.4
22.5°	8664.1	8752.0	8970.2	8552.0	7542.9	6900.4	6867.1	7073.1	7979.2	8882.3	8915.7
25°	9894.5	10043.0	10149.1	9612.7	7985.3	7151.9	6994.3	7348.9	8330.8	9733.9	10088.5
27.5°	10709.7	10864.3	10840.0	10073.3	8282.3	7218.6	7085.3	7415.6	8636.9	9936.9	10700.6
30°	11346.1	11440.1	11609.8	10321.8	8579.3	7406.5	7179.2	7697.4	8736.9	10288.5	11440.1
32.5°	12088.6	12152.2	12164.3	10761.2	9036.9	7642.9	7470.1	8048.9	9179.3	10624.9	12094.6
35°	12837.1	12931.0	12734.1	11303.7	9318.7	8082.3	7955.0	8658.1	9533.9	10973.4	12815.9
37.5°	13649.3	13697.8	13243.2	11527.9	9721.8	8797.5	8727.8	9315.7	10149.1	11603.7	13615.9
40°	14331.1	14376.6	13785.6	11803.7	10146.0	9797.5	9976.3	10570.3	10985.5	12012.8	14016.0
42.5°	14709.9	14816.0	13967.5	11652.2	10997.6	10930.9	11724.9	11934.0	11955.2	12128.0	14373.6
45°	14813.0	14764.5	13667.5	11776.4	11743.1	12794.7	13515.9	13791.7	12918.9	12340.1	14464.5
47.5°	14337.2	14400.8	13225.0	11667.3	12721.9	14206.9	15140.3	15652.4	13637.2	12155.2	14240.2
50°	13952.3	13870.5	13082.6	11588.5	12985.6	14873.6	16313.1	16428.2	14297.8	12382.5	13994.7
52.5°	14028.1	14079.6	13309.9	11797.7	12991.7	14913.0	16494.9	16416.1	14319.0	12331.0	13906.9
55°	14188.7	13961.4	13212.9	11337.0	12121.9	13812.9	14640.2	14519.0	13215.9	11782.5	13691.7
57.5°	12243.1	12594.7	12149.2	10121.8	9949.1	10406.7	10391.5	10764.3	9858.1	10140.0	12464.4
60°	9936.9	9997.5	10164.2	8658.1	6885.2	6727.7	6509.5	6273.1	6633.7	8670.2	11337.0
62.5°	8739.9	8667.2	9261.1	7876.2	4860.9	4069.9	4033.6	4179.0	5118.5	8270.2	10633.9
65°	6351.9	6442.8	6873.1	6112.5	3648.7	3106.2	3051.7	3482.0	4142.7	6627.7	8115.6
67.5°	3879.0	4054.8	4094.2	3769.9	2475.9	1966.8	1888.0	2278.9	2991.1	4288.1	4757.9
70°	1791.0	2003.1	2203.2	2057.7	1433.4	809.1	763.7	957.6	1509.2	2466.8	2524.4
72.5°	542.5	545.5	763.7	797.0	463.7	181.8	160.6	212.1	512.2	815.2	857.6
75°	39.4	42.4	103.0	118.2	87.9	45.5	48.5	57.6	109.1	181.8	136.4
77.5°	3.0	3.0	3.0	15.2	27.3	30.3	39.4	45.5	57.6	66.7	60.6
80°	3.0	0.0	3.0	12.1	21.2	30.3	36.4	42.4	45.5	51.5	45.5
82.5°	0.0	0.0	0.0	9.1	21.2	30.3	33.3	45.5	51.5	60.6	51.5
85°	0.0	0.0	0.0	9.1	21.2	33.3	30.3	15.2	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°	7812.6	7812.6	7812.6	7812.6	7812.6	7812.6	7812.6	7812.6	7812.6	7812.6	7812.6
2.5°	8261.1	8142.9	7873.2	7736.8	7415.6	7370.1	7055.0	7003.4	6897.4	6839.8	6700.4
5°	7558.0	7415.6	6976.2	6606.4	6176.1	5876.1	5645.8	5436.7	5315.5	5203.3	5254.8
7.5°	6985.3	6570.1	6082.2	5464.0	4967.0	4645.7	4294.2	4006.3	3836.6	3721.4	3748.7
10°	6385.2	6115.5	5436.7	4742.7	4142.7	3915.4	3639.6	3418.4	3179.0	2972.9	2875.9
12.5°	6197.3	5797.3	4945.7	4239.6	3785.1	3563.8	3248.7	2994.1	2688.0	2436.5	2348.6
15°	6230.7	5845.8	4812.4	4057.8	3521.4	3139.6	2763.8	2448.6	2112.2	1936.5	1845.6
17.5°	6773.1	6106.4	4900.3	3866.9	3154.7	2624.4	2160.7	1760.7	1509.2	1327.3	1288.0
20°	7439.8	6670.1	5088.2	3727.5	2854.7	2088.0	1578.9	1233.4	1024.3	994.0	984.9
22.5°	8415.6	7591.3	5491.2	3633.5	2488.0	1627.4	1081.9	897.0	839.4	833.4	836.4
25°	9779.4	8746.0	5930.6	3554.8	2212.2	1254.6	884.9	760.6	742.5	733.4	748.5
27.5°	10370.3	9443.0	6164.0	3385.0	1960.7	1130.4	872.8	754.6	703.1	687.9	697.0
30°	11100.6	9906.6	6530.7	3094.1	1591.0	930.4	815.2	821.3	797.0	721.3	697.0
32.5°	12070.4	10485.5	6715.5	2888.0	1421.3	769.7	597.0	548.5	612.2	624.3	645.5
35°	12691.6	11073.4	6809.5	2766.8	1333.4	657.6	506.1	460.6	445.5	448.5	460.6
37.5°	13846.3	11867.4	6927.7	2639.5	1266.7	572.8	457.6	415.2	394.0	394.0	406.1
40°	14537.2	12497.7	7088.3	2569.8	1200.1	521.2	415.2	378.8	360.6	360.6	366.7
42.5°	14709.9	12809.8	7033.7	2545.6	1124.3	509.1	378.8	351.5	330.3	327.3	324.3
45°	15019.0	13285.6	7042.8	2518.3	1045.5	463.7	357.6	327.3	297.0	294.0	290.9
47.5°	15358.5	13628.1	7061.0	2412.3	969.8	387.9	372.7	303.0	266.7	260.6	260.6
50°	15067.5	13900.8	7218.6	2306.2	872.8	315.2	366.7	284.9	236.4	227.3	230.3
52.5°	15103.9	14222.0	7552.0	2157.7	751.6	251.5	297.0	269.7	215.2	200.0	203.0
55°	14522.1	13882.6	7597.4	2000.1	587.9	194.0	227.3	236.4	181.8	175.8	175.8
57.5°	12500.7	11755.2	6703.4	1621.3	387.9	160.6	163.6	206.1	157.6	151.5	154.6
60°	10697.6	9436.9	5394.3	1069.8	242.4	127.3	118.2	209.1	139.4	136.4	145.5
62.5°	9752.1	7755.0	4091.1	663.7	166.7	97.0	81.8	169.7	121.2	121.2	133.3
65°	7045.9	5209.4	2378.9	348.5	118.2	75.8	60.6	97.0	100.0	103.0	109.1
67.5°	4363.9	2630.5	1003.1	169.7	78.8	51.5	39.4	60.6	66.7	66.7	72.7
70°	2154.7	1048.5	333.4	97.0	60.6	42.4	27.3	33.3	33.3	30.3	33.3
72.5°	666.7	315.2	84.9	60.6	42.4	27.3	15.2	12.1	6.1	0.0	3.0
75°	75.8	60.6	54.5	42.4	27.3	12.1	3.0	0.0	0.0	0.0	0.0
77.5°	45.5	51.5	51.5	42.4	27.3	9.1	0.0	0.0	0.0	0.0	0.0
80°	36.4	39.4	42.4	39.4	24.2	12.1	0.0	0.0	0.0	0.0	0.0
82.5°	45.5	51.5	57.6	51.5	33.3	15.2	6.1	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	9.1	3.0	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°	7812.6	7812.6	7812.6	7812.6	7812.6	7812.6	7812.6	7812.6	7812.6	7812.6	7812.6
2.5°	6642.8	6576.1	6670.1	6530.7	6527.6	6530.7	6491.3	6454.9	6512.5	6667.1	6682.2
5°	5070.0	5212.4	5257.9	5406.4	5324.5	5203.3	5227.6	5145.8	5345.8	5433.6	5363.9
7.5°	3691.1	3682.0	3988.1	4006.3	4045.7	4048.7	4042.7	3882.0	3718.4	3754.8	3863.9
10°	2863.8	2709.2	2857.7	2842.6	2939.6	2912.3	2951.7	2778.9	2836.5	2836.5	2906.2
12.5°	2333.5	2169.8	2142.5	2103.2	2142.5	2157.7	2172.9	2139.5	2236.5	2281.9	2330.4
15°	1781.9	1691.0	1666.8	1591.0	1603.1	1645.5	1681.9	1697.1	1666.8	1736.5	1742.5
17.5°	1294.0	1291.0	1306.1	1303.1	1291.0	1281.9	1278.9	1239.5	1227.3	1233.4	1257.6
20°	981.9	1006.1	1057.6	1109.2	1136.4	1103.1	1057.6	991.0	963.7	969.8	972.8
22.5°	839.4	875.8	945.5	1003.1	1030.4	969.8	887.9	830.4	818.2	815.2	812.2
25°	760.6	803.1	854.6	872.8	869.7	833.4	772.8	748.5	742.5	736.4	709.1
27.5°	718.2	733.4	742.5	763.7	772.8	748.5	733.4	697.0	690.9	690.9	672.8
30°	694.0	684.9	697.0	681.9	694.0	675.8	678.8	678.8	663.7	669.7	669.7
32.5°	645.5	648.5	648.5	618.2	627.3	606.1	627.3	645.5	648.5	651.6	675.8
35°	472.8	527.3	554.6	554.6	563.7	548.5	545.5	524.3	497.0	469.7	457.6
37.5°	415.2	436.4	472.8	494.0	509.1	497.0	469.7	436.4	421.2	409.1	397.0
40°	369.7	387.9	412.1	436.4	466.7	451.5	409.1	394.0	375.8	375.8	363.7
42.5°	333.4	342.4	357.6	394.0	427.3	397.0	366.7	354.6	345.5	342.4	339.4
45°	300.0	303.0	318.2	348.5	387.9	357.6	327.3	312.1	315.2	318.2	315.2
47.5°	269.7	275.8	284.9	321.2	345.5	330.3	297.0	287.9	287.9	287.9	290.9
50°	233.3	248.5	266.7	297.0	315.2	306.1	278.8	266.7	260.6	260.6	263.7
52.5°	209.1	221.2	245.5	281.8	306.1	290.9	263.7	245.5	233.3	230.3	236.4
55°	181.8	203.0	242.4	269.7	303.0	287.9	257.6	236.4	215.2	212.1	212.1
57.5°	163.6	197.0	233.3	266.7	294.0	281.8	257.6	230.3	203.0	200.0	200.0
60°	154.6	190.9	227.3	257.6	294.0	275.8	254.6	224.3	194.0	194.0	190.9
62.5°	145.5	178.8	215.2	245.5	281.8	266.7	245.5	215.2	184.9	184.9	178.8
65°	121.2	154.6	178.8	206.1	245.5	230.3	209.1	187.9	163.6	157.6	160.6
67.5°	84.9	106.1	130.3	157.6	181.8	175.8	166.7	151.5	130.3	127.3	124.2
70°	42.4	57.6	78.8	106.1	127.3	121.2	115.2	103.0	90.9	87.9	87.9
72.5°	6.1	18.2	33.3	48.5	66.7	69.7	66.7	63.6	60.6	57.6	60.6
75°	0.0	0.0	0.0	12.1	27.3	33.3	39.4	45.5	45.5	39.4	48.5
77.5°	0.0	0.0	0.0	0.0	3.0	15.2	30.3	39.4	48.5	42.4	57.6
80°	0.0	0.0	0.0	0.0	3.0	18.2	30.3	42.4	48.5	42.4	60.6
82.5°	0.0	0.0	0.0	0.0	3.0	21.2	30.3	39.4	45.5	42.4	54.5
85°	0.0	0.0	0.0	0.0	9.1	18.2	12.1	6.1	3.0	3.0	9.1
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-SA4D-730-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7812.6	7812.6	7812.6	7812.6	7812.6	7812.6	7812.6	7812.6	7812.6	7812.6
2.5°	6767.1	6982.2	7212.5	7300.4	7573.2	7779.2	7918.6	8218.7	8264.1	8267.1
5°	5436.7	5545.8	5939.7	6124.6	6530.7	6845.8	7182.2	7667.1	7991.4	8015.6
7.5°	3863.9	4166.9	4333.6	4815.4	5315.5	5809.4	6309.5	6873.1	7248.9	7258.0
10°	3109.3	3306.3	3603.2	3963.9	4385.1	4888.2	5554.9	6209.4	6591.3	6685.2
12.5°	2503.2	2848.6	3188.1	3560.8	3882.0	4260.9	4979.1	5851.9	6167.0	6354.9
15°	1927.4	2242.6	2642.6	3079.0	3442.6	3948.7	4766.9	5764.0	6294.3	6357.9
17.5°	1421.3	1703.1	2072.8	2485.0	3030.5	3748.7	4803.3	6209.4	6709.5	6815.5
20°	1021.3	1184.9	1475.8	1954.7	2648.6	3515.4	4839.7	6661.0	7421.6	7603.5
22.5°	809.1	875.8	1066.7	1491.0	2221.3	3269.9	5097.3	7524.7	8400.5	8664.1
25°	703.1	739.4	830.4	1175.8	1951.6	3245.6	5509.4	8561.1	9703.6	9894.5
27.5°	678.8	684.9	763.7	1078.9	1806.2	3085.0	5667.0	9297.5	10515.8	10709.7
30°	715.2	812.2	818.2	912.2	1536.5	2766.8	5748.8	10009.7	11203.7	11346.1
32.5°	618.2	587.9	609.1	706.1	1351.6	2582.0	5903.4	10630.9	11988.6	12088.6
35°	430.3	451.5	500.0	612.2	1181.9	2388.0	5942.8	11315.8	12734.1	12837.1
37.5°	397.0	409.1	448.5	521.2	1039.5	2278.9	5888.2	11815.8	13506.8	13649.3
40°	369.7	384.9	406.1	472.8	933.4	2157.7	5812.5	12267.4	13979.6	14331.1
42.5°	348.5	360.6	378.8	451.5	842.5	2036.5	5706.4	12903.8	14403.9	14709.9
45°	324.3	342.4	363.7	439.4	791.0	1954.7	5627.6	12864.4	14649.3	14813.0
47.5°	300.0	330.3	354.6	409.1	775.8	1915.3	5660.9	12715.9	14449.3	14337.2
50°	275.8	315.2	357.6	339.4	739.4	1836.5	5700.3	12918.9	13973.5	13952.3
52.5°	254.6	300.0	333.4	278.8	657.6	1760.7	6082.2	13185.6	14309.9	14028.1
55°	224.3	269.7	266.7	224.3	533.4	1703.1	6382.2	13191.7	14082.6	14188.7
57.5°	203.0	239.4	209.1	187.9	394.0	1424.3	5894.3	11061.2	12055.2	12243.1
60°	187.9	233.3	157.6	148.5	257.6	1027.3	5145.8	8567.2	9582.4	9936.9
62.5°	172.7	221.2	124.2	121.2	178.8	730.3	4230.5	7170.1	8258.1	8739.9
65°	151.5	157.6	100.0	93.9	127.3	394.0	2575.9	4936.6	6173.1	6351.9
67.5°	124.2	121.2	81.8	75.8	84.9	190.9	1136.4	2472.9	3579.0	3879.0
70°	100.0	100.0	69.7	60.6	60.6	87.9	297.0	984.9	1618.3	1791.0
72.5°	72.7	75.8	54.5	48.5	45.5	42.4	48.5	197.0	424.3	542.5
75°	63.6	66.7	54.5	42.4	33.3	27.3	21.2	18.2	24.2	39.4
77.5°	69.7	69.7	57.6	39.4	30.3	21.2	12.1	6.1	6.1	3.0
80°	87.9	90.9	75.8	51.5	36.4	24.2	15.2	6.1	3.0	3.0
82.5°	93.9	103.0	84.9	63.6	45.5	27.3	15.2	3.0	0.0	0.0
85°	24.2	39.4	66.7	57.6	45.5	27.3	15.2	3.0	0.0	0.0
87.5°	0.0	3.0	9.1	9.1	12.1	12.1	9.1	3.0	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

(END OF REPORT)