

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: P451858

Luminaire Tested: **GALN-SA2D-730-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451858
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-730-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12212 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

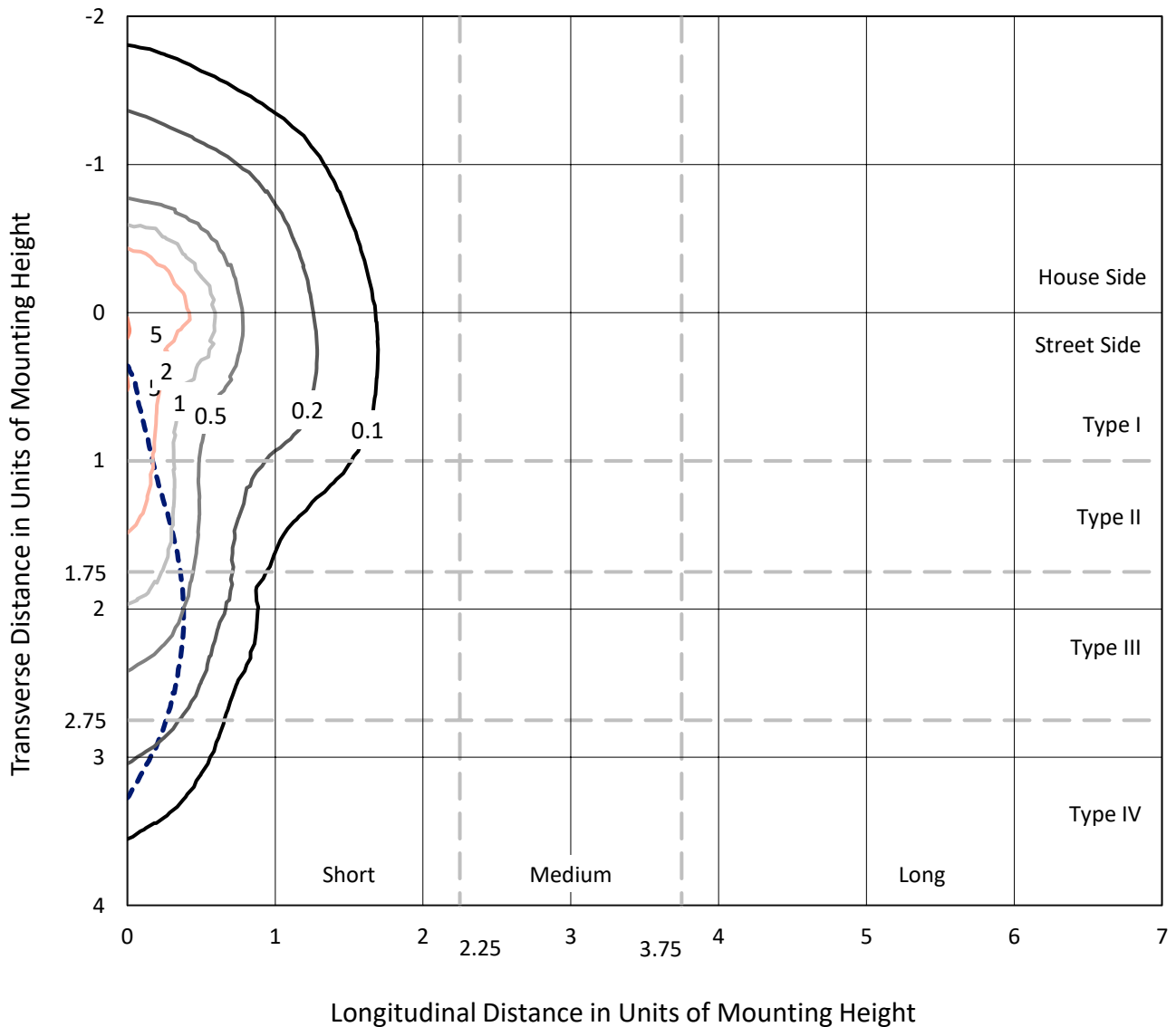
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

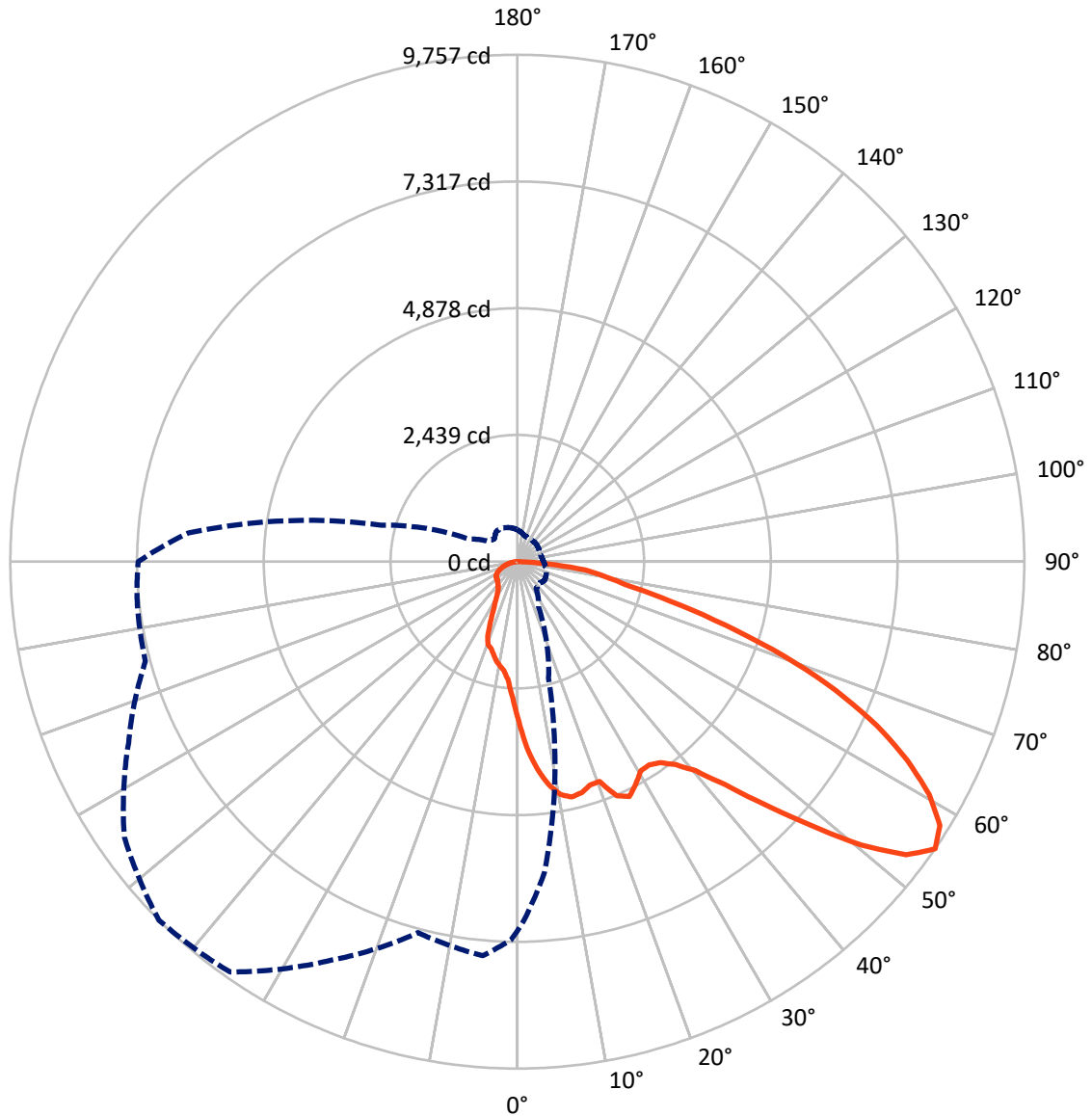
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2671.3	0.0	2671.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	9540.7	0.0	9540.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	12212.0	0.0	12212.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.7	2.1
10°-20°	689.1	5.6
20°-30°	1190.5	9.7
30°-40°	1383.5	11.3
40°-50°	1930.3	15.8
50°-60°	2619.2	21.4
60°-70°	2491.8	20.4
70°-80°	1346.2	11.0
80°-90°	301.7	2.5
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°	12212.0	100.0
0°-180°	12212.0	100.0

Coefficient of Utilization



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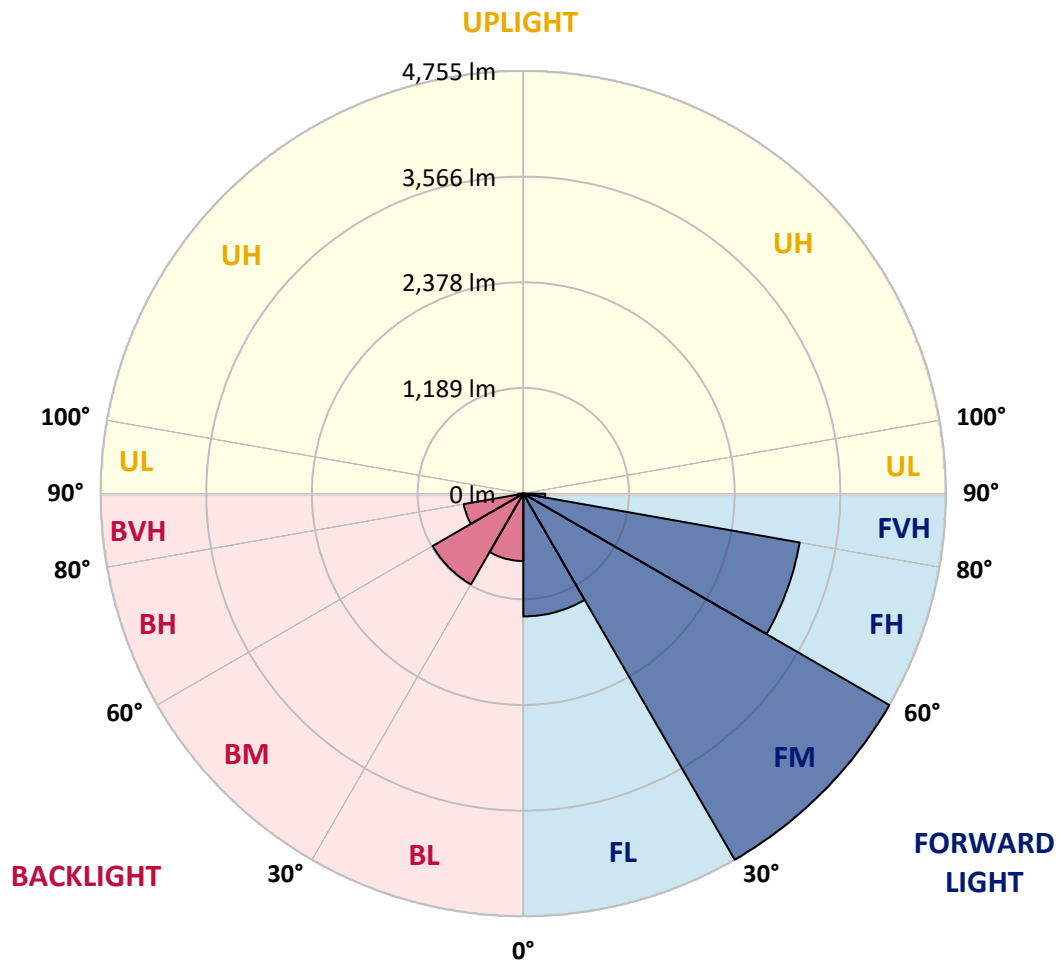
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1381.2	11.3			
FM	(30°-60°)	4755.1	38.9			
FH	(60°-80°)	3157.8	25.9			G2/5000
FVH	(80°-90°)	246.6	2.0			G3/500
BL	(0°-30°)	758.1	6.2	B2/1000		
BM	(30°-60°)	1177.9	9.6	B2/2500		
BH	(60°-80°)	680.2	5.6	B2/1000		G2/1000
BVH	(80°-90°)	55.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7
2.5°	3404.7	3391.8	3355.6	3260.5	3164.6	3067.2	2992.2	2898.8	2801.3	2748.9	2682.0
5°	3451.5	3437.0	3351.6	3137.2	2943.1	2739.2	2576.5	2433.9	2375.9	2290.5	2222.0
7.5°	3341.9	3335.4	3207.3	2899.6	2633.7	2367.0	2182.5	2068.1	1964.2	1925.5	1933.6
10°	3242.0	3216.2	3055.9	2653.8	2343.7	2126.9	1994.8	1882.8	1809.5	1790.2	1794.2
12.5°	3159.0	3124.4	2935.0	2488.7	2217.2	2044.0	1875.6	1758.8	1691.9	1710.4	1773.3
15°	3142.1	3095.4	2884.3	2432.3	2147.9	1924.7	1740.2	1605.7	1555.7	1596.0	1696.7
17.5°	3251.6	3192.8	2971.3	2450.8	2081.8	1803.1	1576.7	1422.8	1380.9	1445.4	1576.7
20°	3603.7	3516.7	3242.8	2558.0	2075.4	1742.6	1481.6	1326.9	1344.6	1467.1	1604.1
22.5°	4254.7	4124.2	3718.1	2714.3	2109.2	1727.3	1462.3	1381.7	1479.2	1583.1	1673.4
25°	4383.6	4281.3	3803.5	2749.7	2102.0	1716.9	1517.1	1557.3	1666.1	1717.7	1686.2
27.5°	4456.1	4339.3	3797.9	2574.1	1879.6	1557.3	1450.2	1517.1	1544.5	1494.5	1409.1
30°	4625.3	4503.6	3893.8	2389.6	1547.7	1155.3	1012.7	985.3	1003.9	1013.5	982.9
32.5°	4858.1	4738.1	4074.2	2268.7	1338.2	955.5	815.3	776.7	767.8	757.3	745.2
35°	5159.5	4975.0	4251.5	2191.4	1252.0	883.8	754.9	725.1	713.0	698.5	685.6
37.5°	5465.6	5272.2	4475.4	2110.0	1194.8	833.9	714.6	700.9	680.0	664.7	646.1
40°	5791.1	5574.4	4679.3	2039.1	1139.2	801.6	685.6	684.0	656.6	638.9	617.1
42.5°	6073.1	5849.9	4861.4	1995.6	1096.5	767.8	667.9	672.7	644.5	617.9	589.7
45°	6297.0	6077.9	5029.7	1995.6	1061.9	734.0	664.7	661.4	633.2	600.2	568.0
47.5°	6493.6	6267.2	5194.1	2046.4	1040.1	705.8	646.9	652.6	623.6	581.7	550.3
50°	6645.9	6446.1	5415.7	2125.3	1018.4	683.2	624.4	655.0	615.5	572.0	535.8
52.5°	6840.1	6661.2	5682.3	2233.3	999.8	658.2	604.2	655.0	614.7	572.8	533.3
55°	7109.2	6920.6	6003.8	2322.7	970.0	634.9	586.5	636.5	612.3	568.8	526.9
57.5°	7297.7	7156.7	6231.0	2382.3	927.3	605.1	570.4	618.7	601.8	553.5	507.6
58°	7306.5	7168.8	6264.0	2396.0	916.8	599.4	566.4	610.7	597.0	547.0	501.1
60°	7205.0	7086.6	6270.5	2376.7	857.2	571.2	545.4	577.7	571.2	509.2	466.5
62.5°	6836.0	6709.5	6010.2	2219.6	778.3	536.6	513.2	533.3	518.8	456.0	416.5
65°	6311.5	6078.7	5475.3	1973.1	721.9	499.5	469.7	471.3	456.0	410.9	376.2
67.5°	5613.0	5352.8	4635.8	1662.9	679.2	458.4	418.1	414.1	395.6	366.6	338.4
70°	4753.4	4575.3	3767.3	1352.7	631.6	413.3	360.1	357.7	346.4	324.7	299.7
72.5°	3852.7	3626.3	3042.2	1082.8	573.6	369.8	306.2	311.0	296.5	281.2	258.6
75°	2843.2	2694.9	2351.7	868.5	495.5	322.3	255.4	257.0	250.6	234.4	216.7
77.5°	1872.4	1828.0	1682.2	570.4	381.1	256.2	208.7	210.3	205.4	190.9	172.4
80°	1260.1	1230.2	1140.0	367.4	254.6	185.3	161.1	162.7	161.9	146.6	121.7
82.5°	776.7	763.8	734.8	248.1	176.4	132.9	106.3	111.2	120.0	103.1	83.0
85°	366.6	367.4	443.9	135.4	103.9	85.4	58.0	62.0	62.0	62.0	46.7
87.5°	47.5	50.0	61.2	57.2	37.9	32.2	20.9	17.7	15.3	20.1	14.5
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°	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7
2.5°	2658.7	2642.6	2607.9	2599.9	2595.0	2608.7	2572.5	2582.1	2566.0	2611.1	2603.9
5°	2226.0	2227.7	2255.9	2274.4	2280.8	2274.4	2250.2	2208.3	2176.1	2163.2	2166.4
7.5°	1918.3	1946.5	1994.8	2048.8	2097.9	2112.4	2098.7	2019.0	1932.0	1877.2	1859.5
10°	1816.0	1853.8	1909.4	1952.1	1995.6	2030.3	2037.5	1975.5	1872.4	1742.6	1691.9
12.5°	1821.6	1873.2	1926.3	1940.0	1936.0	1949.7	1943.3	1932.8	1865.1	1699.9	1615.4
15°	1768.4	1829.7	1866.7	1859.5	1846.6	1834.5	1817.6	1791.0	1766.8	1650.8	1557.3
17.5°	1646.0	1708.8	1739.4	1741.8	1741.8	1738.6	1697.5	1687.9	1684.6	1628.2	1571.0
20°	1668.5	1703.2	1689.5	1666.9	1673.4	1695.1	1670.9	1666.1	1684.6	1709.6	1699.1
22.5°	1681.4	1669.3	1566.2	1466.3	1443.7	1511.4	1525.1	1579.1	1654.0	1744.3	1803.1
25°	1601.7	1504.2	1319.7	1206.9	1143.2	1206.1	1288.3	1388.2	1500.1	1616.2	1684.6
27.5°	1339.0	1264.9	1132.8	1031.2	975.7	985.3	1055.4	1146.5	1250.4	1328.5	1378.5
30°	1008.7	975.7	907.2	872.5	838.7	830.6	860.4	895.1	941.0	950.7	963.6
32.5°	742.8	738.0	742.0	730.7	724.3	723.5	714.6	722.7	727.5	733.2	721.9
35°	671.9	665.5	654.2	651.0	646.9	648.6	644.5	640.5	643.7	648.6	651.8
37.5°	635.7	626.0	609.9	604.2	604.2	606.7	600.2	598.6	604.2	619.6	627.6
40°	607.5	596.2	577.7	570.4	575.2	581.7	572.8	569.6	583.3	599.4	612.3
42.5°	580.9	572.0	554.3	546.2	550.3	562.4	549.5	547.0	564.8	582.5	597.8
45°	558.3	549.5	533.3	529.3	530.9	542.2	533.3	533.3	550.3	569.6	583.3
47.5°	540.6	529.3	518.8	515.6	517.2	523.7	522.1	522.1	538.2	558.3	572.0
50°	522.9	513.2	499.5	501.1	505.1	514.0	513.2	515.6	531.7	556.7	571.2
52.5°	514.8	500.3	485.0	486.6	498.7	509.2	506.0	508.4	526.9	573.6	594.6
55°	506.0	486.6	468.9	471.3	485.0	500.3	496.3	499.5	521.3	584.9	613.9
57.5°	489.0	466.5	447.1	448.8	468.9	485.0	478.6	482.6	508.4	572.8	603.4
58°	481.8	462.4	443.9	444.7	464.1	481.8	474.5	477.8	504.3	569.6	598.6
60°	451.2	439.9	423.8	424.6	443.1	458.4	454.4	457.6	483.4	546.2	568.0
62.5°	409.3	402.8	398.8	398.8	410.1	424.6	428.6	432.6	456.0	493.9	513.2
65°	364.2	364.2	365.0	365.0	372.2	390.7	393.2	403.6	425.4	443.9	458.4
67.5°	333.5	331.9	333.5	329.5	332.7	344.0	356.1	365.8	388.3	401.2	406.1
70°	294.1	293.3	294.1	288.4	292.5	302.1	310.2	326.3	349.7	359.3	361.7
72.5°	255.4	255.4	257.0	253.0	253.0	263.5	269.1	286.8	308.6	314.2	315.0
75°	215.1	217.5	217.5	211.9	213.5	219.9	227.2	241.7	261.8	265.9	265.9
77.5°	170.8	179.7	179.7	174.0	176.4	177.2	186.9	194.2	209.5	211.1	204.6
80°	124.1	132.9	140.2	135.4	139.4	134.5	140.2	145.0	160.3	153.1	142.6
82.5°	88.6	95.1	100.7	101.5	97.5	88.6	95.9	96.7	103.9	94.3	88.6
85°	49.1	54.8	62.0	58.8	52.4	46.7	49.1	50.8	50.0	47.5	44.3
87.5°	12.9	13.7	15.3	11.3	10.5	8.9	12.1	12.1	13.7	14.5	13.7
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°	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7
2.5°	2609.5	2645.0	2721.5	2779.5	2850.4	2936.6	3038.1	3140.5	3250.8	3285.5	3333.8
5°	2159.2	2247.8	2284.9	2390.4	2495.1	2652.2	2819.8	3014.0	3226.7	3329.0	3427.3
7.5°	1845.0	1892.5	1931.2	2008.5	2134.2	2325.1	2535.4	2777.9	3079.2	3228.3	3372.5
10°	1675.8	1680.6	1728.1	1824.0	1933.6	2102.0	2301.0	2572.5	2908.4	3089.7	3258.9
12.5°	1563.8	1542.8	1594.4	1694.3	1818.4	1973.9	2156.8	2415.4	2785.2	2971.3	3175.9
15°	1465.5	1432.5	1471.1	1573.5	1695.9	1878.8	2075.4	2349.3	2736.8	2953.6	3180.8
17.5°	1467.9	1376.9	1390.6	1476.8	1598.4	1784.5	2023.0	2346.9	2810.1	3059.9	3329.0
20°	1649.2	1503.4	1441.3	1457.4	1575.1	1778.1	2047.2	2459.7	3051.0	3415.2	3702.8
22.5°	1827.2	1739.4	1639.5	1606.5	1670.9	1883.6	2201.1	2726.4	3574.7	4123.4	4643.0
25°	1765.2	1840.1	1815.2	1768.4	1782.9	1959.4	2305.8	2945.5	3981.6	4599.5	5087.8
27.5°	1412.3	1548.5	1575.9	1575.1	1580.7	1725.7	2073.8	2798.1	4032.3	4690.6	5157.0
30°	992.6	1004.7	1019.2	1047.4	1073.1	1202.9	1622.6	2456.5	4009.8	4731.6	5198.9
32.5°	716.2	732.3	752.5	791.2	852.4	1017.6	1419.6	2347.7	4129.0	4901.6	5321.4
35°	655.0	673.5	692.9	737.2	795.2	948.3	1339.0	2302.6	4324.8	5177.2	5541.3
37.5°	635.7	656.6	673.5	705.8	752.5	898.3	1265.7	2272.0	4525.4	5468.8	5836.2
40°	622.0	646.1	659.8	685.6	717.8	852.4	1200.4	2247.8	4719.6	5735.5	6073.1
42.5°	609.9	634.9	652.6	671.1	697.7	811.3	1142.4	2223.6	4887.9	5994.1	6309.1
45°	595.4	626.8	649.4	663.9	687.2	776.7	1098.1	2204.3	5079.7	6223.7	6547.6
47.5°	583.3	617.9	646.1	663.1	671.9	752.5	1062.7	2230.9	5310.1	6463.8	6769.2
50°	584.1	617.1	652.6	679.2	655.8	732.3	1040.9	2336.4	5609.8	6749.0	6944.0
52.5°	609.9	650.2	678.4	684.8	633.2	708.2	1029.6	2520.9	5964.3	7001.2	7120.4
55°	638.9	680.8	711.4	707.4	621.2	677.6	1027.2	2717.5	6352.6	7295.3	7350.0
57.5°	628.4	689.6	736.4	715.4	622.0	647.8	1016.7	2876.2	6677.3	7515.2	7577.2
58°	625.2	686.4	739.6	713.8	619.6	638.9	1014.3	2889.9	6722.4	7530.5	7609.5
60°	593.8	658.2	737.2	701.7	605.9	614.7	987.7	2934.2	6710.4	7451.6	7628.8
62.5°	536.6	589.7	681.6	642.9	564.0	582.5	928.1	2879.4	6383.3	7071.3	7346.0
65°	472.1	511.6	572.8	565.6	504.3	549.5	846.7	2662.7	5728.3	6454.2	6743.4
67.5°	423.8	456.0	494.7	484.2	453.6	505.1	758.9	2296.1	4993.5	5712.9	6077.1
70°	374.6	399.6	418.9	411.7	402.0	461.6	680.8	1863.5	4289.3	5008.8	5361.7
72.5°	324.7	348.0	364.2	353.7	348.0	415.7	617.1	1446.2	3387.8	4132.2	4585.8
75°	271.5	294.9	306.2	294.1	290.8	366.6	522.9	1080.4	2541.9	3185.6	3577.1
77.5°	210.3	235.3	249.8	245.7	247.3	301.3	422.2	739.6	1817.6	2171.3	2583.8
80°	147.4	174.8	184.5	180.5	191.7	229.6	298.1	469.7	1253.6	1409.1	1699.9
82.5°	91.0	116.8	118.4	122.5	130.5	170.0	224.8	286.0	787.1	813.7	1024.8
85°	45.9	55.6	59.6	66.1	73.3	103.9	128.1	177.2	506.8	383.5	572.8
87.5°	15.3	16.1	19.3	24.2	29.8	42.7	54.8	72.5	125.7	69.3	177.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P451858

CATALOG NUMBER: GALN-SA2D-730-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7
2.5°	3431.3	3499.8	3549.7	3595.7	3551.4	3547.3	3503.8	3433.7	3404.7	3404.7
5°	3633.5	3793.9	3923.6	4006.6	3971.1	3885.7	3744.7	3565.1	3468.4	3451.5
7.5°	3689.1	4005.7	4246.6	4332.0	4272.4	4083.9	3814.0	3511.1	3372.5	3341.9
10°	3655.3	4067.0	4420.7	4556.0	4473.0	4187.8	3819.6	3448.2	3277.4	3242.0
12.5°	3619.8	4075.0	4452.9	4648.7	4594.7	4271.6	3860.7	3407.1	3209.8	3159.0
15°	3645.6	4078.3	4413.4	4615.6	4650.3	4372.3	3928.4	3437.0	3196.1	3142.1
17.5°	3808.4	4139.5	4357.0	4520.6	4642.2	4509.3	4121.0	3579.6	3318.5	3251.6
20°	4148.3	4286.1	4389.2	4515.7	4711.5	4788.8	4514.9	3971.1	3662.5	3603.7
22.5°	5132.9	5107.9	4896.8	4894.4	5178.0	5488.2	5469.6	4767.1	4303.0	4254.7
25°	5501.9	5385.8	5080.5	5006.4	5131.3	5609.8	5540.5	4929.8	4501.2	4383.6
27.5°	5357.6	5070.0	4869.4	4852.5	4811.4	5263.4	5430.2	4995.9	4570.5	4456.1
30°	5348.8	4925.8	4639.0	4672.8	4712.3	5144.1	5491.4	5203.0	4747.8	4625.3
32.5°	5370.5	4946.0	4655.9	4662.4	4780.0	5161.9	5559.1	5428.5	4980.6	4858.1
35°	5458.4	5060.4	4763.9	4748.6	4932.3	5277.9	5674.3	5783.0	5298.8	5159.5
37.5°	5600.2	5288.4	4961.3	4957.2	5223.9	5487.4	5817.7	6140.7	5615.5	5465.6
40°	5808.8	5555.0	5312.5	5290.8	5620.3	5828.2	6003.8	6521.8	5983.6	5791.1
42.5°	6061.0	5874.9	5775.8	5862.0	6178.6	6210.8	6293.8	6873.9	6297.0	6073.1
45°	6294.6	6285.8	6423.5	6652.3	6836.8	6643.5	6596.8	7110.0	6540.4	6297.0
47.5°	6572.6	6812.7	7228.4	7563.5	7756.9	7147.0	6855.4	7263.8	6717.6	6493.6
50°	6854.6	7443.5	8107.4	8574.7	8615.7	7694.1	7033.4	7408.9	6878.7	6645.9
52.5°	7151.0	7947.0	8830.9	9373.9	9294.1	8170.2	7205.8	7507.2	7044.7	6840.1
55°	7408.9	8255.6	9235.3	9756.6	9639.7	8460.2	7391.9	7613.5	7281.6	7109.2
57.5°	7553.1	8281.4	9134.6	9589.8	9463.3	8403.9	7477.3	7692.5	7433.0	7297.7
58°	7574.0	8246.7	9045.2	9493.1	9364.2	8356.3	7476.5	7689.2	7442.7	7306.5
60°	7555.5	8022.0	8712.4	9111.2	8975.9	8058.2	7445.9	7628.8	7320.2	7205.0
62.5°	7383.9	7632.0	8138.0	8428.0	8389.3	7592.6	7320.2	7400.8	6947.2	6836.0
65°	7158.3	7100.3	7402.4	7607.9	7636.9	7243.7	7195.4	6907.7	6468.7	6311.5
67.5°	6884.4	6497.7	6496.9	6613.7	6662.0	6707.1	6935.1	6372.0	5779.0	5613.0
70°	6419.5	5568.7	5312.5	5450.3	5410.0	5791.1	6470.3	5619.5	4947.6	4753.4
72.5°	5567.1	4419.1	4009.0	4186.2	4084.7	4541.5	5661.4	4624.5	4091.1	3852.7
75°	4512.5	3305.6	2882.7	3045.4	2982.6	3445.0	4710.7	3358.8	2934.2	2843.2
77.5°	3503.8	2395.2	2149.5	2126.9	2173.7	2563.6	3455.5	2267.9	1934.4	1872.4
80°	2251.0	1714.4	1728.9	1699.9	1724.1	1616.2	2097.9	1447.0	1310.0	1260.1
82.5°	1481.6	1194.8	1424.4	1314.8	1248.8	1086.8	1376.1	947.5	804.0	776.7
85°	1009.5	879.8	800.8	612.3	721.1	837.1	1032.1	510.0	404.4	366.6
87.5°	456.0	306.2	224.8	138.6	219.1	253.0	501.1	59.6	45.9	47.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)