

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: P529692

Luminaire Tested: **GALN-SA4D-760-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-760-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22792 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

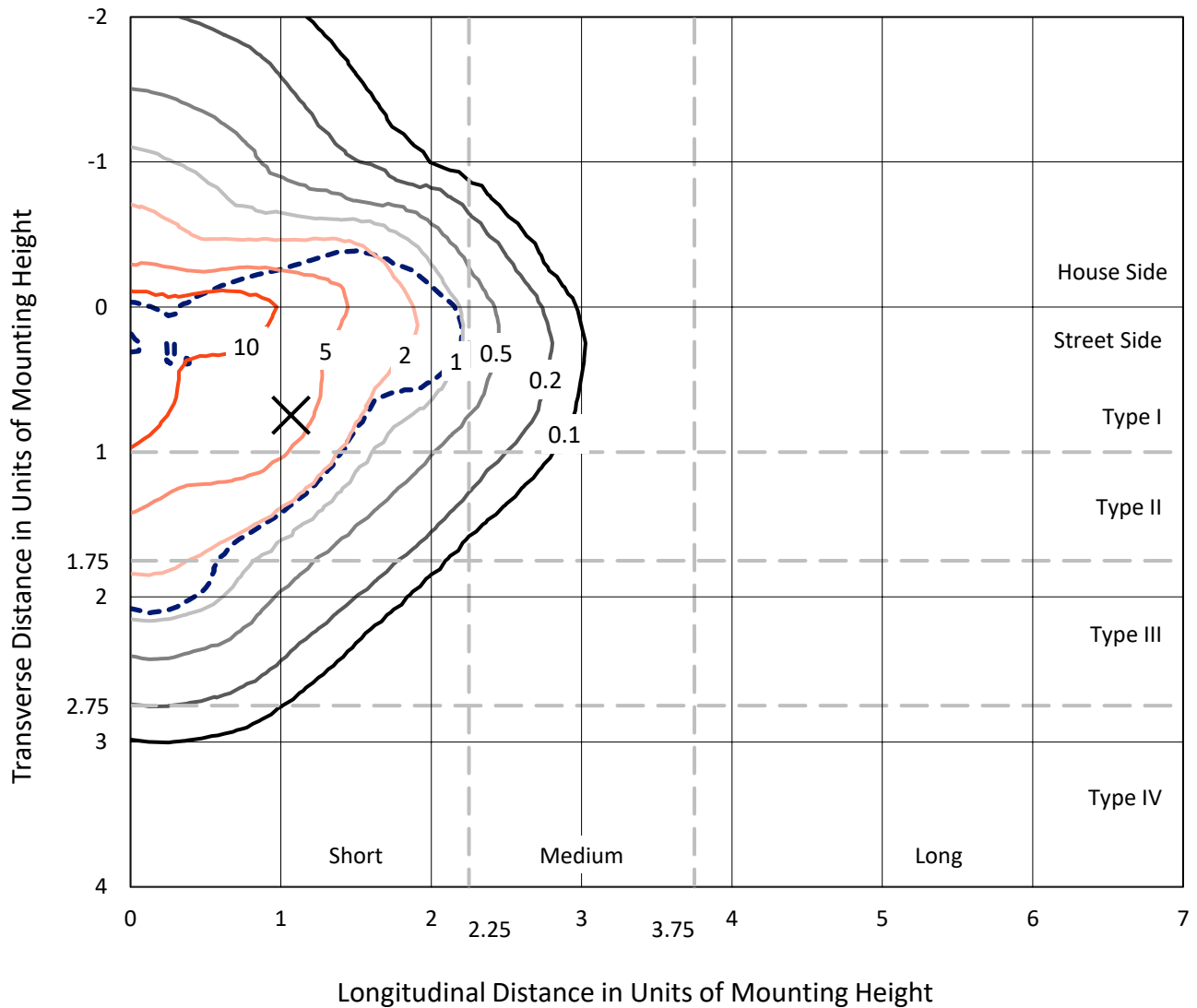
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

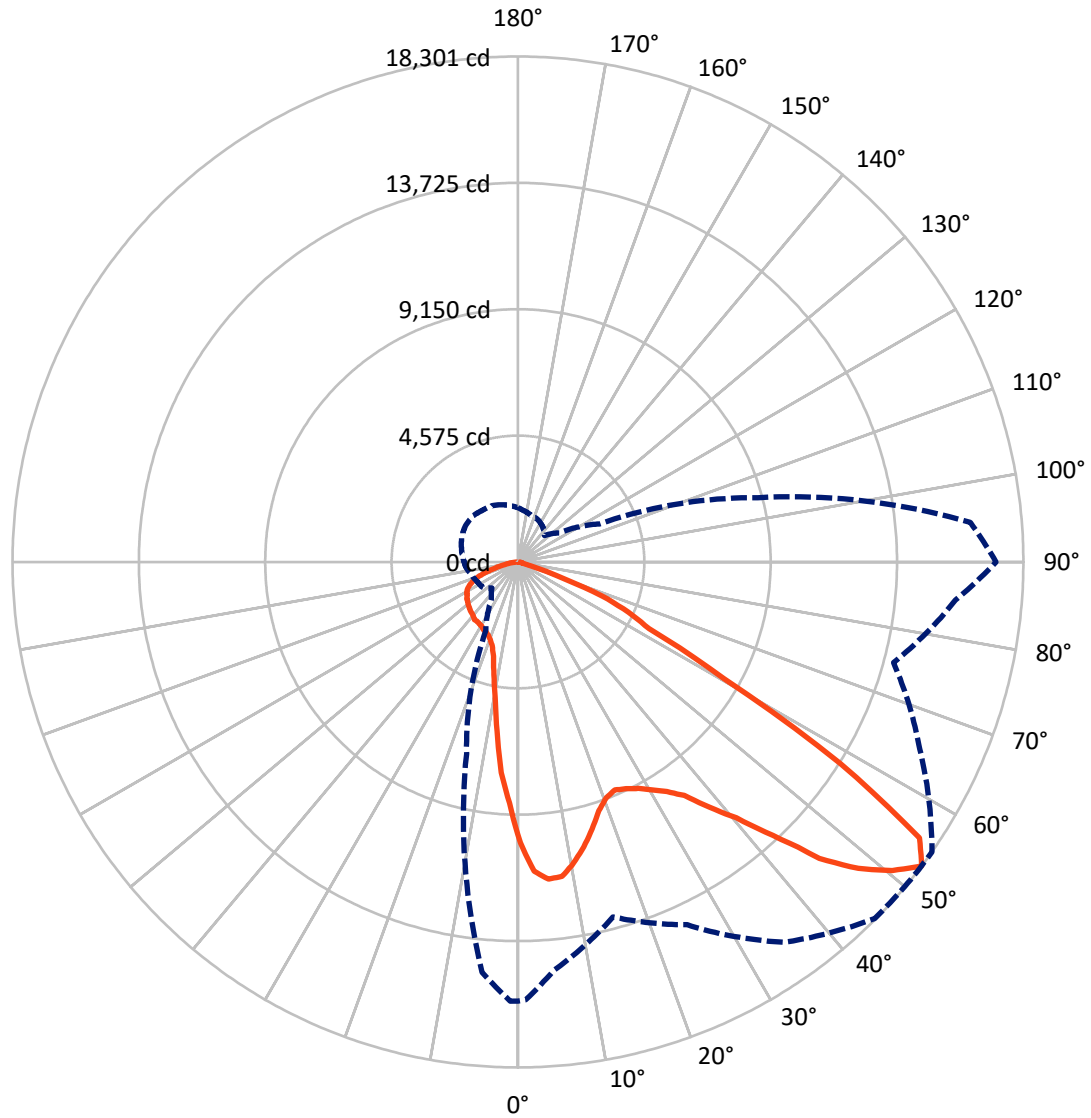
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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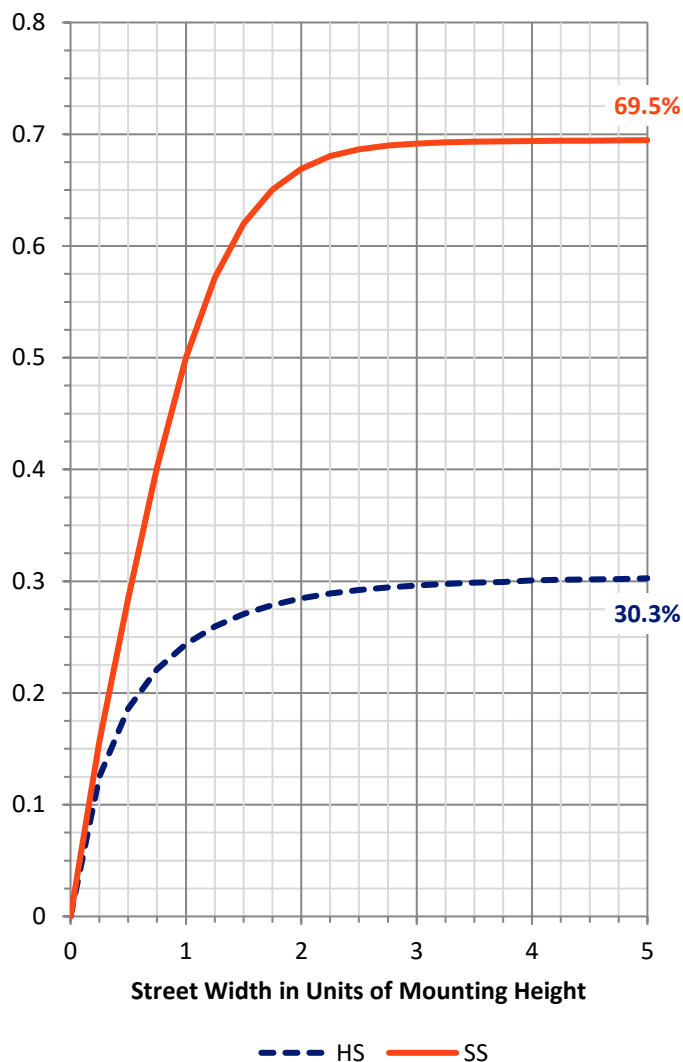
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6952.8	0.0	6952.8
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	15839.2	0.0	15839.2
	% Fixture	69.5	0.0	69.5
Total	Lumens	22792.0	0.0	22792.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	776.7	3.4
10°-20°	1674.7	7.3
20°-30°	2539.5	11.1
30°-40°	3669.1	16.1
40°-50°	4903.0	21.5
50°-60°	5472.8	24.0
60°-70°	3002.1	13.2
70°-80°	649.0	2.8
80°-90°	105.0	0.5
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°	22792.0	100.0
0°-180°	22792.0	100.0

Coefficient of Utilization



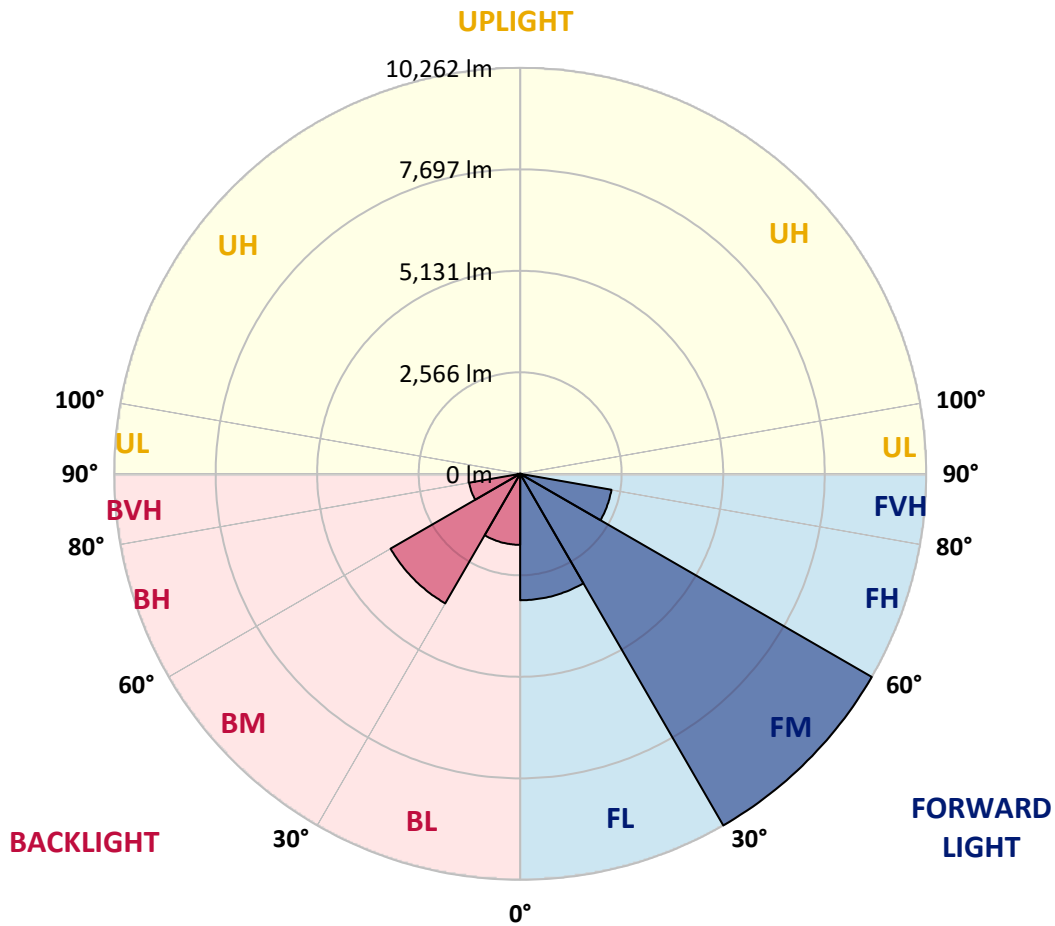
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3195.9	14.0			
FM (30°-60°)	10262.0	45.0			
FH (60°-80°)	2342.4	10.3			G2/5000
FVH (80°-90°)	38.9	0.2			G1/100
BL (0°-30°)	1795.1	7.9	B3/2500		
BM (30°-60°)	3782.9	16.6	B3/5000		
BH (60°-80°)	1308.7	5.7	B3/2500		G3/2500
BVH (80°-90°)	66.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10167.0	10167.0	10167.0	10167.0	10167.0	10167.0	10167.0	10167.0	10167.0	10167.0	10167.0
2.5°	10669.5	10609.6	10662.9	10915.8	11062.2	11162.1	11225.3	11215.3	10975.7	10742.7	10742.7
5°	10356.7	10280.1	10390.0	10962.4	11538.1	11588.0	11671.2	11534.8	11182.0	10756.0	10223.6
7.5°	9451.5	9508.1	9691.1	10443.2	11192.0	11568.1	11667.9	11494.9	10922.4	10127.1	9345.0
10°	8669.4	8802.5	9225.2	10037.2	10726.1	11215.3	11325.1	11082.2	10629.6	9654.5	8955.6
12.5°	8399.8	8316.6	8785.9	9597.9	10256.9	10519.8	10569.7	10586.3	10280.1	9414.9	8562.9
15°	8366.6	8419.8	8785.9	9401.6	9807.6	9820.9	9904.1	10033.9	10073.8	9577.9	8745.9
17.5°	8845.8	8782.6	9158.6	9647.8	9454.8	9261.8	9281.8	9468.1	9797.6	9717.7	9321.7
20°	9554.6	9697.7	9993.9	9944.0	9424.9	8935.6	8939.0	9115.4	9764.3	10296.8	10123.7
22.5°	10732.8	10872.5	11092.2	10489.8	9424.9	8839.1	8726.0	8965.6	9977.3	10985.7	11028.9
25°	11807.7	12063.9	12123.9	11415.0	9897.4	8929.0	8855.8	9092.1	10190.3	11657.9	12067.3
27.5°	12786.1	12879.3	13142.2	12010.7	10160.3	8988.9	8982.2	9285.1	10459.9	11994.1	12995.8
30°	13558.2	13548.2	13698.0	12386.8	10579.7	9325.0	9002.2	9574.6	10812.6	12549.8	13854.4
32.5°	14084.0	14197.2	14513.3	12909.3	10756.0	9644.5	9391.6	9914.1	11241.9	12812.7	14460.1
35°	15009.2	15205.6	14806.2	13198.8	11315.1	9960.7	9664.5	10376.7	11454.9	13099.0	15202.2
37.5°	15881.1	15731.4	15325.4	13355.2	11677.9	10546.4	10270.2	11271.9	12117.2	13721.3	15694.8
40°	16440.2	16436.9	15714.7	13481.7	11934.2	11441.6	11425.0	12180.4	12929.2	14114.0	16247.2
42.5°	16683.2	16916.1	15874.5	13468.4	12473.3	12526.5	12862.7	13538.2	13505.0	14193.9	16233.9
44°	17016.0	17155.8	16150.7	13498.3	12832.7	13258.7	14050.8	14480.1	14007.5	14150.6	16217.3
45°	17002.7	17012.7	15758.0	13538.2	13138.9	13871.0	14579.9	15305.4	14450.1	14057.4	16436.9
47.5°	16613.3	16500.2	15425.2	13242.1	14094.0	15488.4	16144.1	16583.4	14995.9	13857.7	16164.0
50°	15844.5	15714.7	14616.5	13115.6	14293.7	16493.5	17398.7	17558.5	15491.8	13661.4	15894.5
52.5°	15897.8	15861.2	14846.1	13305.3	14493.4	16809.7	18260.7	18300.6	16054.2	14074.0	15897.8
55°	16849.6	16723.1	15505.1	13541.6	14346.9	16440.2	17711.5	17641.7	15864.5	13824.5	16190.6
57.5°	15418.6	15501.8	14593.2	12606.4	12556.5	13365.2	13924.3	13751.2	13238.7	12476.6	15062.5
60°	12440.0	12676.3	12762.8	10543.1	9474.8	9058.8	8892.4	8586.2	8672.7	10250.2	13232.1
62.5°	10669.5	10656.2	11198.7	9558.0	6206.7	5338.1	5258.2	5328.1	6326.5	10090.5	12959.2
65°	8459.7	8686.0	8852.4	8100.3	4912.1	3963.6	3960.3	4402.9	5474.5	8433.1	10463.2
67.5°	5371.4	5667.6	5873.9	5181.7	3284.7	2822.1	2745.6	3278.1	3793.9	5531.1	6299.9
70°	3028.5	3168.2	3261.4	2988.5	2090.0	1464.3	1377.8	1504.2	2293.0	3580.9	3734.0
72.5°	1168.1	1231.4	1357.8	1367.8	788.7	472.6	382.7	459.3	965.1	1417.7	1351.2
75°	179.7	193.0	272.9	326.1	226.3	173.1	183.0	189.7	269.6	366.1	306.2
77.5°	86.5	86.5	83.2	96.5	113.2	123.1	133.1	146.4	159.7	176.4	169.7
80°	56.6	56.6	56.6	66.6	83.2	99.8	113.2	119.8	126.5	139.8	133.1
82.5°	36.6	36.6	36.6	49.9	66.6	83.2	89.9	106.5	119.8	139.8	129.8
85°	20.0	20.0	20.0	33.3	49.9	69.9	66.6	53.2	30.0	3.3	6.7
87.5°	6.7	6.7	6.7	6.7	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°	10167.0	10167.0	10167.0	10167.0	10167.0	10167.0	10167.0	10167.0	10167.0	10167.0	10167.0
2.5°	10463.2	10310.1	10296.8	9984.0	9704.4	9568.0	9458.1	9152.0	9218.5	9042.1	9038.8
5°	9957.3	9644.5	9138.6	8722.6	8306.7	8223.5	7860.7	7544.5	7554.5	7328.2	7368.2
7.5°	9048.8	8832.5	8216.8	7564.5	7012.1	6619.4	6276.6	6070.2	5807.3	5717.5	5670.9
10°	8473.1	8206.8	7514.6	6695.9	6076.9	5867.2	5537.8	5354.7	5085.2	4952.0	4858.9
12.5°	8220.1	7830.7	6965.5	6133.5	5720.8	5504.5	5224.9	4892.1	4572.7	4449.5	4279.8
15°	8246.7	7780.8	6805.7	5907.2	5411.3	4992.0	4742.4	4373.0	4046.8	3830.5	3707.4
17.5°	8649.4	8083.7	6878.9	5734.1	5021.9	4496.1	4006.9	3607.5	3348.0	3184.9	3144.9
20°	9601.2	8832.5	7002.1	5454.6	4632.6	3976.9	3374.6	2958.6	2758.9	2755.6	2758.9
22.5°	10393.3	9631.2	7251.7	5288.2	4243.2	3311.3	2712.3	2579.2	2539.3	2622.5	2632.4
25°	11461.6	10529.7	7681.0	5201.6	3883.8	2822.1	2452.7	2402.8	2399.5	2506.0	2509.3
27.5°	12556.5	11315.1	7937.2	4948.7	3517.7	2569.2	2296.3	2286.3	2339.6	2452.7	2442.7
30°	13302.0	11974.1	8399.8	4645.9	3085.0	2346.2	2233.1	2246.4	2319.6	2406.1	2419.4
32.5°	14170.6	12623.0	8519.6	4479.5	2818.8	2159.9	2080.0	2109.9	2203.1	2339.6	2412.8
35°	15165.6	13082.3	8702.7	4253.2	2719.0	2016.8	1976.8	2010.1	2123.3	2213.1	2293.0
37.5°	15901.1	13894.3	8736.0	4076.8	2609.1	1936.9	1873.7	1983.5	2050.0	2176.5	2216.4
40°	16446.9	14483.4	8822.5	3967.0	2522.6	1833.7	1833.7	1906.9	1996.8	2113.3	2193.1
42.5°	16796.3	14912.7	8885.7	3867.1	2356.2	1803.8	1787.1	1860.3	1980.2	2093.3	2129.9
44°	17009.3	15095.7	8822.5	3773.9	2309.6	1767.2	1767.2	1830.4	1923.6	2056.7	2100.0
45°	17062.6	15325.4	8682.7	3770.6	2253.0	1723.9	1717.2	1837.0	1900.3	2063.4	2090.0
47.5°	17268.9	15608.3	8699.4	3664.1	2116.6	1620.7	1737.2	1790.5	1847.0	1990.1	2080.0
50°	17262.3	15784.6	8662.7	3507.7	2016.8	1504.2	1697.3	1757.2	1813.8	1960.2	1996.8
52.5°	17308.9	16443.6	8998.9	3258.1	1837.0	1354.5	1564.2	1697.3	1767.2	1890.3	1966.8
55°	17285.6	16819.6	9331.7	3071.7	1584.1	1264.6	1451.0	1607.4	1707.3	1837.0	1873.7
57.5°	15788.0	14866.1	8636.1	2722.3	1311.2	1158.1	1291.3	1514.2	1640.7	1773.8	1820.4
60°	12899.3	11458.3	7121.9	2003.4	1078.3	1065.0	1201.4	1484.3	1537.5	1654.0	1733.9
62.5°	11920.8	10050.5	5647.6	1530.9	921.9	975.1	1108.2	1341.2	1424.4	1567.5	1640.7
65°	9328.3	6675.9	3497.7	1035.0	812.0	875.3	1001.7	1174.8	1311.2	1444.3	1530.9
67.5°	5524.5	3647.5	1730.6	725.5	708.9	775.4	905.2	1035.0	1191.4	1337.9	1381.1
70°	3008.5	1793.8	738.8	552.4	602.4	662.3	788.7	878.6	1028.3	1141.5	1214.7
72.5°	965.1	545.8	369.4	409.3	459.3	529.1	605.7	715.5	822.0	888.6	948.5
75°	233.0	229.6	262.9	286.2	332.8	386.0	449.3	505.9	589.1	652.3	705.5
77.5°	163.1	176.4	203.0	236.3	252.9	272.9	312.8	356.1	392.7	439.3	472.6
80°	126.5	136.4	156.4	173.1	189.7	206.3	226.3	242.9	266.2	296.2	312.8
82.5°	119.8	126.5	146.4	156.4	149.8	146.4	159.7	166.4	169.7	179.7	189.7
85°	10.0	0.0	6.7	23.3	56.6	83.2	89.9	89.9	86.5	93.2	93.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	13.3	10.0
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°	10167.0	10167.0	10167.0	10167.0	10167.0	10167.0	10167.0	10167.0	10167.0	10167.0	10167.0
2.5°	8998.9	8885.7	8929.0	8982.2	8905.7	8729.3	8775.9	8755.9	8935.6	8922.3	9102.0
5°	7544.5	7368.2	7388.1	7647.7	7564.5	7654.4	7474.7	7451.4	7484.6	7501.3	7531.2
7.5°	5774.1	5750.8	5950.4	6170.1	6273.3	6166.8	5990.4	5950.4	5913.8	5840.6	6007.0
10°	4712.4	4719.1	4705.8	4872.2	4988.6	4965.4	4858.9	4845.5	4775.7	4749.0	4842.2
12.5°	4206.6	4116.7	4073.5	4020.2	4110.1	4170.0	4123.4	4090.1	4093.4	4126.7	4140.0
15°	3717.4	3660.8	3567.6	3507.7	3551.0	3521.0	3504.4	3570.9	3554.3	3547.6	3627.5
17.5°	3168.2	3214.8	3208.2	3141.6	3198.2	3174.9	3171.6	3125.0	3061.7	3015.2	3041.8
20°	2805.5	2892.0	2958.6	2961.9	2991.9	2988.5	2938.6	2795.5	2748.9	2738.9	2745.6
22.5°	2675.7	2722.3	2802.2	2915.3	2915.3	2862.1	2802.2	2635.8	2592.5	2545.9	2525.9
25°	2572.5	2662.4	2765.6	2778.9	2832.1	2782.2	2685.7	2602.5	2512.6	2449.4	2449.4
27.5°	2519.3	2619.1	2695.7	2719.0	2792.2	2752.2	2652.4	2545.9	2439.4	2436.1	2379.5
30°	2496.0	2589.2	2639.1	2695.7	2728.9	2665.7	2635.8	2522.6	2416.1	2389.5	2296.3
32.5°	2426.1	2559.2	2652.4	2639.1	2665.7	2639.1	2595.8	2502.6	2382.8	2322.9	2312.9
35°	2346.2	2479.3	2579.2	2649.1	2665.7	2609.1	2582.5	2456.1	2293.0	2263.0	2159.9
37.5°	2303.0	2382.8	2506.0	2619.1	2642.4	2612.5	2522.6	2392.8	2229.8	2196.5	2106.6
40°	2249.7	2352.9	2449.4	2542.6	2612.5	2539.3	2436.1	2309.6	2236.4	2136.6	2109.9
42.5°	2209.8	2326.3	2406.1	2509.3	2589.2	2492.7	2372.9	2286.3	2183.2	2116.6	2040.1
44°	2196.5	2303.0	2356.2	2482.7	2549.2	2476.0	2376.2	2286.3	2166.5	2106.6	2040.1
45°	2149.9	2296.3	2352.9	2466.0	2522.6	2462.7	2336.2	2246.4	2159.9	2086.6	2016.8
47.5°	2103.3	2203.1	2299.6	2389.5	2429.4	2409.5	2303.0	2193.1	2090.0	2046.7	1980.2
50°	2090.0	2189.8	2279.7	2362.9	2409.5	2369.5	2273.0	2166.5	2046.7	1976.8	1920.2
52.5°	2023.4	2146.6	2246.4	2273.0	2332.9	2309.6	2236.4	2119.9	2006.8	1946.9	1900.3
55°	1926.9	2056.7	2193.1	2226.4	2312.9	2276.3	2166.5	2056.7	1960.2	1870.3	1810.4
57.5°	1890.3	2016.8	2149.9	2193.1	2246.4	2186.5	2159.9	2043.4	1890.3	1843.7	1750.5
60°	1797.1	1956.9	2066.7	2166.5	2169.8	2153.2	2106.6	1973.5	1847.0	1760.5	1693.9
62.5°	1723.9	1873.7	1960.2	2053.4	2109.9	2063.4	2016.8	1893.6	1757.2	1660.7	1584.1
65°	1617.4	1753.8	1827.1	1883.6	1946.9	1940.2	1860.3	1770.5	1627.4	1550.8	1477.6
67.5°	1454.3	1574.1	1674.0	1727.2	1767.2	1757.2	1697.3	1634.0	1487.6	1411.1	1357.8
70°	1258.0	1381.1	1444.3	1474.3	1514.2	1534.2	1487.6	1457.7	1327.9	1228.0	1178.1
72.5°	1011.7	1091.6	1184.8	1211.4	1228.0	1241.3	1241.3	1214.7	1081.6	1041.7	955.1
75°	745.5	808.7	878.6	878.6	908.5	911.9	918.5	901.9	802.0	748.8	728.8
77.5°	505.9	552.4	609.0	632.3	652.3	649.0	645.6	599.0	545.8	522.5	502.5
80°	329.5	376.1	402.7	432.6	452.6	449.3	455.9	422.7	399.4	359.4	366.1
82.5°	196.4	233.0	259.6	296.2	296.2	306.2	306.2	296.2	272.9	252.9	252.9
85°	93.2	123.1	139.8	163.1	176.4	179.7	159.7	136.4	113.2	103.2	113.2
87.5°	16.6	23.3	33.3	30.0	36.6	33.3	33.3	33.3	33.3	26.6	30.0
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: P529692

CATALOG NUMBER: GALN-SA4D-760-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10167.0	10167.0	10167.0	10167.0	10167.0	10167.0	10167.0	10167.0	10167.0	10167.0
2.5°	9035.5	9201.9	9318.4	9511.4	9844.2	10110.4	10383.3	10586.3	10609.6	10669.5
5°	7641.1	7730.9	8027.1	8413.1	8686.0	9135.3	9424.9	9950.7	10147.0	10356.7
7.5°	5967.1	6113.5	6509.5	6769.1	7368.2	7930.6	8513.0	9161.9	9421.5	9451.5
10°	5031.9	5244.9	5514.5	5930.5	6256.6	6882.3	7607.8	8329.9	8619.5	8669.4
12.5°	4419.6	4692.5	5051.9	5351.4	5664.2	6210.0	6905.6	7797.5	8173.5	8399.8
15°	3830.5	4113.4	4509.4	4925.4	5201.6	5853.9	6672.6	7677.7	8166.9	8366.6
17.5°	3224.8	3487.7	3813.9	4263.1	4818.9	5551.1	6636.0	8077.0	8612.8	8845.8
20°	2705.7	2852.1	3231.5	3694.1	4389.6	5241.6	6649.3	8666.1	9451.5	9554.6
22.5°	2502.6	2535.9	2685.7	3111.7	3873.8	4925.4	6885.6	9501.4	10393.3	10732.8
25°	2346.2	2339.6	2379.5	2665.7	3497.7	4802.3	7118.6	10270.2	11438.3	11807.7
27.5°	2259.7	2193.1	2196.5	2466.0	3231.5	4602.6	7418.1	11152.1	12623.0	12786.1
30°	2216.4	2203.1	2163.2	2273.0	2941.9	4303.1	7468.0	12020.7	13321.9	13558.2
32.5°	2189.8	2060.0	2010.1	2050.0	2669.0	3976.9	7654.4	12593.1	14187.2	14084.0
35°	2056.7	1940.2	1906.9	1946.9	2476.0	3793.9	7531.2	13092.3	14836.2	15009.2
37.5°	2006.8	1903.6	1837.0	1803.8	2296.3	3640.8	7468.0	13861.1	15465.1	15881.1
40°	1960.2	1850.4	1770.5	1737.2	2156.5	3437.8	7448.0	14453.4	16190.6	16440.2
42.5°	1906.9	1837.0	1747.2	1687.3	1986.8	3234.8	7218.4	14636.5	16413.6	16683.2
44°	1890.3	1783.8	1690.6	1670.6	1920.2	3131.6	7171.8	14802.9	16606.6	17016.0
45°	1873.7	1773.8	1667.3	1640.7	1897.0	3075.1	7108.6	14842.8	16926.1	17002.7
47.5°	1827.1	1763.8	1660.7	1587.4	1847.0	2951.9	6918.9	14616.5	16600.0	16613.3
50°	1790.5	1717.2	1610.7	1467.6	1780.5	2848.8	7005.4	14533.3	15814.6	15844.5
52.5°	1750.5	1640.7	1580.8	1334.5	1670.6	2762.2	7188.4	14909.4	15904.4	15897.8
55°	1703.9	1584.1	1437.7	1221.4	1487.6	2652.4	7631.1	15651.5	16736.4	16849.6
57.5°	1630.7	1527.5	1317.9	1121.5	1277.9	2442.7	7488.0	14230.5	15398.6	15418.6
60°	1534.2	1437.7	1194.7	1045.0	1048.3	1926.9	6695.9	11088.8	12150.5	12440.0
62.5°	1441.0	1387.8	1091.6	935.2	891.9	1534.2	5660.9	9215.2	10429.9	10669.5
65°	1331.2	1201.4	1001.7	852.0	765.4	1074.9	4010.2	6885.6	8136.9	8459.7
67.5°	1191.4	1051.6	881.9	748.8	655.6	718.8	2070.0	3913.7	5181.7	5371.4
70°	1041.7	911.9	742.1	632.3	529.1	495.9	911.9	1867.0	2832.1	3028.5
72.5°	855.3	735.5	592.4	499.2	396.0	342.8	306.2	499.2	1005.1	1168.1
75°	619.0	535.8	446.0	356.1	279.6	219.6	179.7	149.8	166.4	179.7
77.5°	455.9	389.4	329.5	252.9	196.4	156.4	123.1	93.2	89.9	86.5
80°	356.1	316.2	262.9	203.0	153.1	116.5	86.5	63.2	56.6	56.6
82.5°	279.6	259.6	216.3	166.4	126.5	93.2	63.2	43.3	36.6	36.6
85°	106.5	106.5	156.4	136.4	96.5	66.6	43.3	23.3	20.0	20.0
87.5°	26.6	26.6	26.6	26.6	23.3	20.0	20.0	10.0	6.7	6.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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