

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: P453221

Luminaire Tested: **GALN-SA4B-727-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453221
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-SA4B-727-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA 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: 16227 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

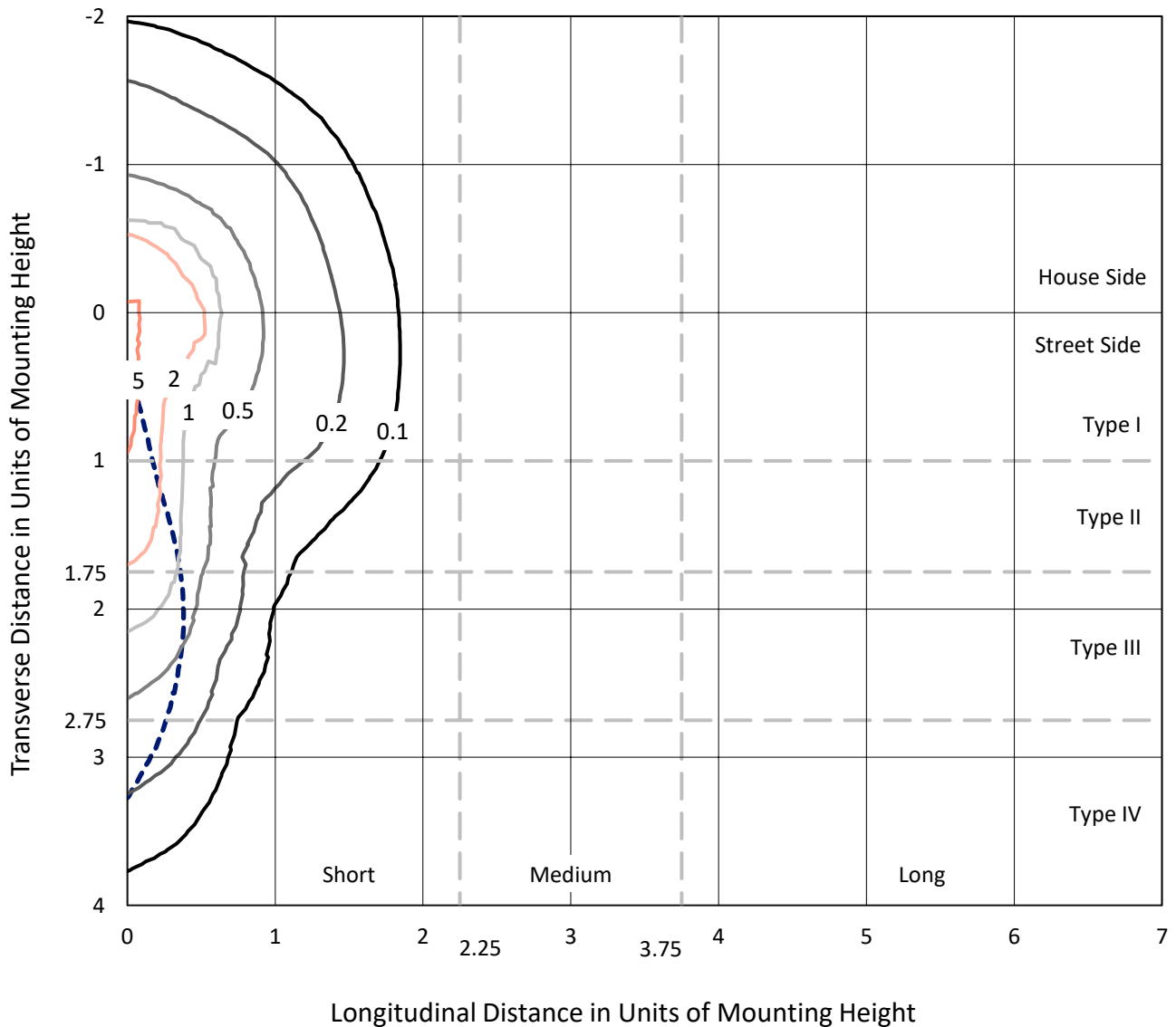
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

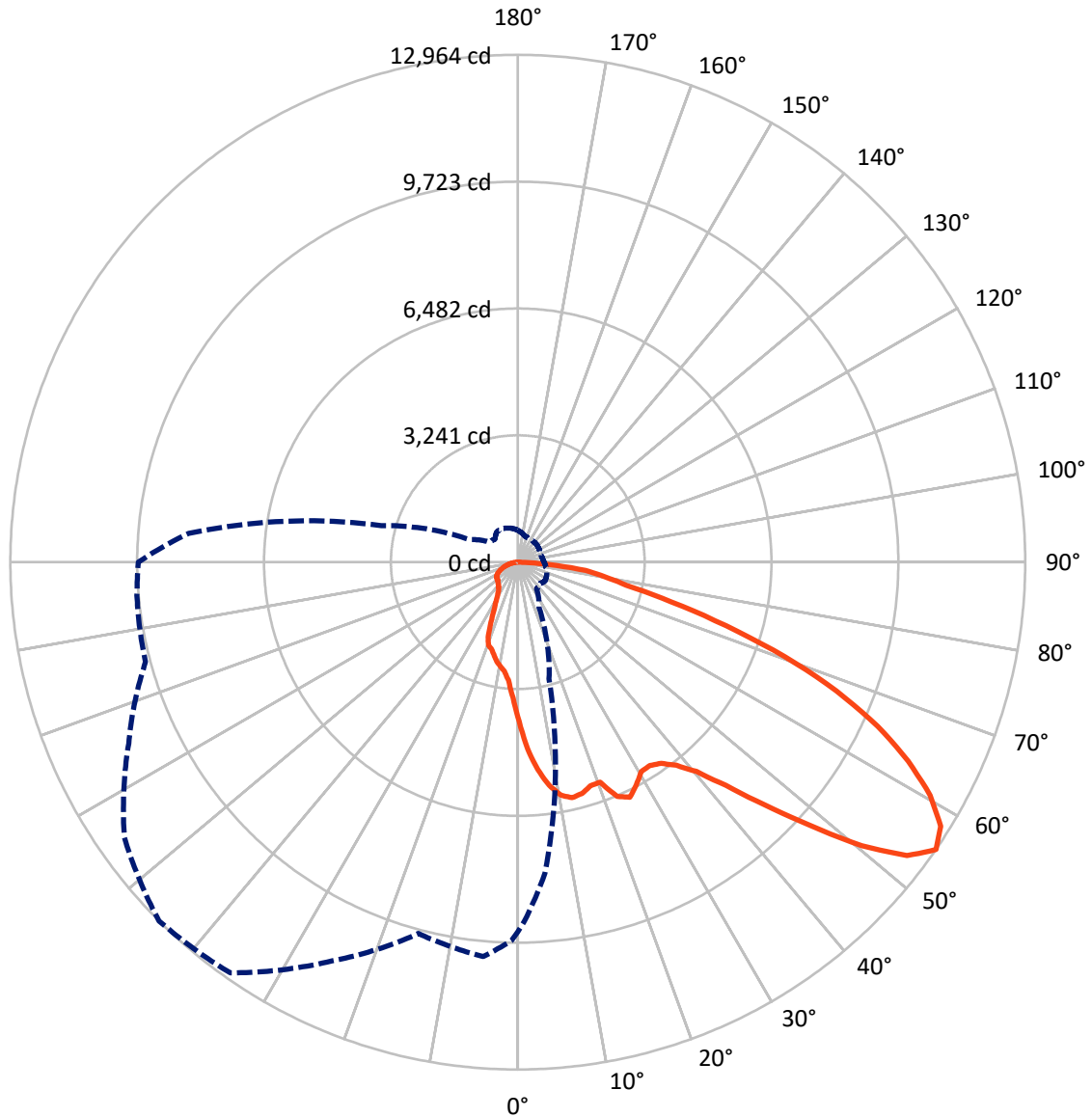
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	3549.6	0.0	3549.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	12677.4	0.0	12677.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	16227.0	0.0	16227.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.1	2.1
10°-20°	915.7	5.6
20°-30°	1581.9	9.7
30°-40°	1838.4	11.3
40°-50°	2564.9	15.8
50°-60°	3480.3	21.4
60°-70°	3311.1	20.4
70°-80°	1788.7	11.0
80°-90°	400.9	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°	16227.0	100.0
0°-180°	16227.0	100.0

Coefficient of Utilization



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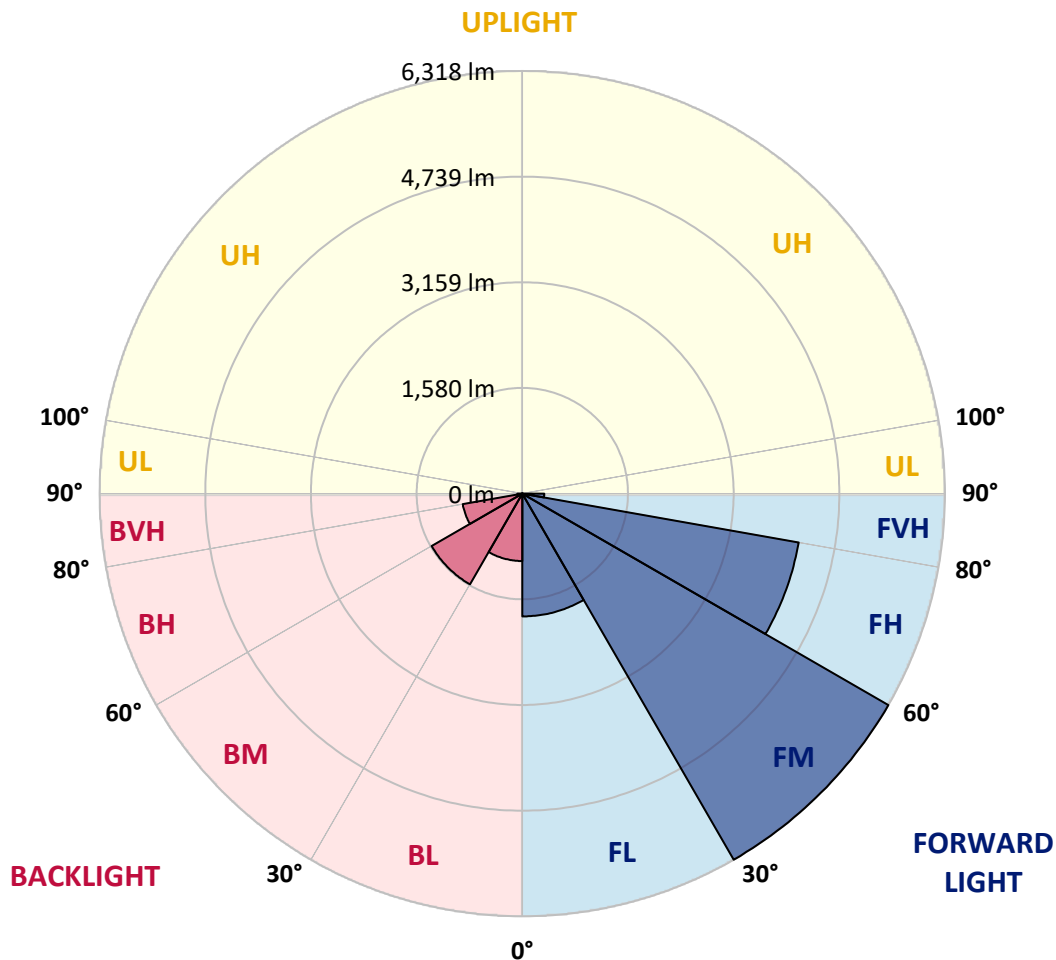
CATALOG NUMBER: GALN-SA4B-727-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1835.3	11.3			
FM (30°-60°)	6318.5	38.9			
FH (60°-80°)	4196.0	25.9			G2/5000
FVH (80°-90°)	327.6	2.0			G3/500
BL (0°-30°)	1007.4	6.2	B3/2500		
BM (30°-60°)	1565.1	9.6	B2/2500		
BH (60°-80°)	903.8	5.6	B2/1000		G2/1000
BVH (80°-90°)	73.3	0.5			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4072.3	4072.3	4072.3	4072.3	4072.3	4072.3	4072.3	4072.3	4072.3	4072.3	4072.3
2.5°	4524.1	4507.0	4458.8	4332.5	4205.1	4075.6	3976.0	3851.8	3722.3	3652.7	3563.8
5°	4586.2	4566.9	4453.5	4168.7	3910.7	3639.8	3423.6	3234.1	3157.0	3043.6	2952.6
7.5°	4440.6	4432.0	4261.8	3852.9	3499.6	3145.3	2900.1	2748.1	2610.0	2558.6	2569.3
10°	4307.9	4273.6	4060.6	3526.4	3114.2	2826.2	2650.7	2501.9	2404.4	2378.7	2384.1
12.5°	4197.6	4151.6	3900.0	3306.9	2946.1	2716.0	2492.2	2337.0	2248.1	2272.8	2356.3
15°	4175.1	4113.0	3832.5	3232.0	2854.1	2557.5	2312.4	2133.6	2067.2	2120.7	2254.6
17.5°	4320.7	4242.6	3948.2	3256.6	2766.3	2395.9	2095.1	1890.6	1834.9	1920.6	2095.1
20°	4788.5	4672.9	4308.9	3399.0	2757.7	2315.6	1968.7	1763.2	1786.7	1949.5	2131.4
22.5°	5653.5	5480.1	4940.6	3606.7	2802.7	2295.2	1943.0	1836.0	1965.5	2103.6	2223.5
25°	5824.8	5688.9	5054.0	3653.8	2793.0	2281.3	2015.8	2069.4	2213.9	2282.4	2240.6
27.5°	5921.2	5765.9	5046.5	3420.4	2497.6	2069.4	1927.0	2015.8	2052.2	1985.9	1872.4
30°	6146.0	5984.3	5173.9	3175.2	2056.5	1535.2	1345.7	1309.3	1333.9	1346.7	1306.1
32.5°	6455.4	6295.9	5413.7	3014.6	1778.2	1269.7	1083.4	1032.0	1020.2	1006.3	990.3
35°	6855.8	6610.6	5649.3	2911.9	1663.6	1174.4	1003.1	963.5	947.4	928.2	911.0
37.5°	7262.6	7005.6	5946.9	2803.8	1587.6	1108.0	949.6	931.4	903.5	883.2	858.6
40°	7695.1	7407.1	6217.7	2709.5	1513.7	1065.2	911.0	908.9	872.5	848.9	820.0
42.5°	8069.7	7773.2	6459.7	2651.7	1457.0	1020.2	887.5	893.9	856.4	821.1	783.6
45°	8367.4	8076.2	6683.4	2651.7	1411.0	975.3	883.2	878.9	841.4	797.6	754.7
47.5°	8628.6	8327.7	6901.8	2719.2	1382.1	937.8	859.6	867.1	828.6	772.9	731.2
50°	8830.9	8565.4	7196.2	2824.1	1353.2	907.8	829.7	870.4	817.9	760.1	711.9
52.5°	9088.9	8851.2	7550.5	2967.5	1328.5	874.6	802.9	870.4	816.8	761.2	708.7
55°	9446.5	9196.0	7977.7	3086.4	1288.9	843.6	779.4	845.7	813.6	755.8	700.1
57.5°	9697.0	9509.6	8279.6	3165.6	1232.2	804.0	757.9	822.2	799.7	735.5	674.4
58°	9708.7	9525.7	8323.5	3183.8	1218.3	796.5	752.6	811.5	793.3	726.9	665.9
60°	9573.9	9416.5	8332.0	3158.1	1139.1	759.0	724.8	767.6	759.0	676.6	619.8
62.5°	9083.6	8915.5	7986.2	2949.3	1034.1	713.0	681.9	708.7	689.4	605.9	553.5
65°	8386.6	8077.2	7275.4	2621.8	959.2	663.7	624.1	626.3	605.9	546.0	499.9
67.5°	7458.5	7112.7	6159.9	2209.6	902.5	609.1	555.6	550.3	525.6	487.1	449.6
70°	6316.2	6079.6	5005.9	1797.4	839.3	549.2	478.5	475.3	460.3	431.4	398.2
72.5°	5119.3	4818.5	4042.4	1438.8	762.2	491.4	406.8	413.2	394.0	373.6	343.6
75°	3777.9	3581.0	3124.9	1154.0	658.4	428.2	339.4	341.5	332.9	311.5	288.0
77.5°	2487.9	2429.1	2235.3	757.9	506.4	340.4	277.3	279.4	273.0	253.7	229.1
80°	1674.3	1634.7	1514.8	488.2	338.3	246.2	214.1	216.2	215.2	194.8	161.7
82.5°	1032.0	1014.9	976.3	329.7	234.4	176.6	141.3	147.7	159.5	137.0	110.3
85°	487.1	488.2	589.9	179.9	138.1	113.5	77.1	82.4	82.4	82.4	62.1
87.5°	63.2	66.4	81.4	76.0	50.3	42.8	27.8	23.6	20.3	26.8	19.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4072.3	4072.3	4072.3	4072.3	4072.3	4072.3	4072.3	4072.3	4072.3	4072.3	4072.3
2.5°	3532.8	3511.4	3465.3	3454.6	3448.2	3466.4	3418.2	3431.1	3409.7	3469.6	3460.0
5°	2957.9	2960.0	2997.5	3022.1	3030.7	3022.1	2990.0	2934.4	2891.5	2874.4	2878.7
7.5°	2549.0	2586.4	2650.7	2722.4	2787.7	2807.0	2788.8	2682.8	2567.2	2494.4	2470.8
10°	2413.0	2463.3	2537.2	2593.9	2651.7	2697.8	2707.4	2625.0	2487.9	2315.6	2248.1
12.5°	2420.5	2489.0	2559.7	2577.9	2572.5	2590.7	2582.1	2568.2	2478.3	2258.8	2146.4
15°	2349.8	2431.2	2480.4	2470.8	2453.7	2437.6	2415.1	2379.8	2347.7	2193.5	2069.4
17.5°	2187.1	2270.6	2311.3	2314.5	2314.5	2310.2	2255.6	2242.8	2238.5	2163.6	2087.6
20°	2217.1	2263.1	2244.9	2215.0	2223.5	2252.4	2220.3	2213.9	2238.5	2271.7	2257.8
22.5°	2234.2	2218.2	2081.1	1948.4	1918.4	2008.3	2026.5	2098.3	2197.8	2317.7	2395.9
25°	2128.2	1998.7	1753.5	1603.7	1519.1	1602.6	1711.8	1844.5	1993.3	2147.5	2238.5
27.5°	1779.2	1680.8	1505.2	1370.3	1296.4	1309.3	1402.4	1523.4	1661.5	1765.3	1831.7
30°	1340.3	1296.4	1205.4	1159.4	1114.4	1103.7	1143.3	1189.4	1250.4	1263.2	1280.4
32.5°	987.0	980.6	986.0	971.0	962.4	961.3	949.6	960.3	966.7	974.2	959.2
35°	892.8	884.3	869.3	865.0	859.6	861.8	856.4	851.1	855.4	861.8	866.1
37.5°	844.7	831.8	810.4	802.9	802.9	806.1	797.6	795.4	802.9	823.2	834.0
40°	807.2	792.2	767.6	757.9	764.4	772.9	761.2	756.9	775.1	796.5	813.6
42.5°	771.9	760.1	736.5	725.8	731.2	747.2	730.1	726.9	750.5	774.0	794.3
45°	741.9	730.1	708.7	703.3	705.5	720.5	708.7	708.7	731.2	756.9	775.1
47.5°	718.3	703.3	689.4	685.1	687.3	695.9	693.7	693.7	715.1	741.9	760.1
50°	694.8	681.9	663.7	665.9	671.2	683.0	681.9	685.1	706.6	739.7	759.0
52.5°	684.1	664.8	644.5	646.6	662.7	676.6	672.3	675.5	700.1	762.2	790.1
55°	672.3	646.6	623.1	626.3	644.5	664.8	659.5	663.7	692.6	777.2	815.8
57.5°	649.8	619.8	594.2	596.3	623.1	644.5	635.9	641.3	675.5	761.2	801.8
58°	640.2	614.5	589.9	590.9	616.6	640.2	630.5	634.8	670.2	756.9	795.4
60°	599.5	584.5	563.1	564.2	588.8	609.1	603.8	608.1	642.3	725.8	754.7
62.5°	543.8	535.3	529.9	529.9	544.9	564.2	569.5	574.9	605.9	656.2	681.9
65°	483.9	483.9	485.0	485.0	494.6	519.2	522.4	536.3	565.2	589.9	609.1
67.5°	443.2	441.1	443.2	437.9	442.1	457.1	473.2	486.0	516.0	533.1	539.6
70°	390.7	389.7	390.7	383.3	388.6	401.5	412.2	433.6	464.6	477.5	480.7
72.5°	339.4	339.4	341.5	336.2	336.2	350.1	357.6	381.1	410.0	417.5	418.6
75°	285.8	289.0	289.0	281.6	283.7	292.3	301.9	321.2	347.9	353.3	353.3
77.5°	227.0	238.7	238.7	231.2	234.4	235.5	248.4	258.0	278.3	280.5	271.9
80°	164.9	176.6	186.3	179.9	185.2	178.8	186.3	192.7	213.0	203.4	189.5
82.5°	117.8	126.3	133.8	134.9	129.5	117.8	127.4	128.5	138.1	125.3	117.8
85°	65.3	72.8	82.4	78.1	69.6	62.1	65.3	67.4	66.4	63.2	58.9
87.5°	17.1	18.2	20.3	15.0	13.9	11.8	16.1	16.1	18.2	19.3	18.2
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°	4072.3	4072.3	4072.3	4072.3	4072.3	4072.3	4072.3	4072.3	4072.3	4072.3	4072.3
2.5°	3467.5	3514.6	3616.3	3693.4	3787.6	3902.1	4037.0	4173.0	4319.6	4365.7	4429.9
5°	2869.1	2986.8	3036.1	3176.3	3315.5	3524.2	3746.9	4004.9	4287.5	4423.5	4554.1
7.5°	2451.5	2514.7	2566.1	2668.9	2835.9	3089.6	3369.0	3691.2	4091.6	4289.7	4481.3
10°	2226.7	2233.2	2296.3	2423.7	2569.3	2793.0	3057.5	3418.2	3864.7	4105.5	4330.3
12.5°	2077.9	2050.1	2118.6	2251.4	2416.2	2622.8	2865.8	3209.5	3700.9	3948.2	4220.1
15°	1947.3	1903.4	1954.8	2090.8	2253.5	2496.5	2757.7	3121.7	3636.6	3924.6	4226.5
17.5°	1950.5	1829.6	1847.8	1962.3	2124.0	2371.3	2688.1	3118.5	3734.1	4065.9	4423.5
20°	2191.4	1997.6	1915.2	1936.6	2092.9	2362.7	2720.2	3268.4	4054.1	4538.0	4920.2
22.5°	2428.0	2311.3	2178.6	2134.7	2220.3	2502.9	2924.7	3622.7	4750.0	5479.0	6169.5
25°	2345.6	2445.1	2411.9	2349.8	2369.1	2603.6	3063.9	3913.9	5290.6	6111.7	6760.5
27.5°	1876.7	2057.6	2094.0	2092.9	2100.4	2293.1	2755.6	3718.0	5358.1	6232.7	6852.5
30°	1318.9	1335.0	1354.2	1391.7	1426.0	1598.3	2156.1	3264.1	5328.1	6287.3	6908.2
32.5°	951.7	973.1	999.9	1051.3	1132.6	1352.1	1886.3	3119.6	5486.5	6513.2	7070.9
35°	870.4	895.0	920.7	979.5	1056.6	1260.0	1779.2	3059.6	5746.7	6879.3	7363.2
37.5°	844.7	872.5	895.0	937.8	999.9	1193.7	1681.8	3018.9	6013.2	7266.8	7755.0
40°	826.5	858.6	876.8	911.0	953.9	1132.6	1595.1	2986.8	6271.2	7621.2	8069.7
42.5°	810.4	843.6	867.1	891.8	927.1	1078.0	1518.0	2954.7	6495.0	7964.8	8383.4
45°	791.1	832.9	862.9	882.1	913.2	1032.0	1459.1	2929.0	6749.8	8269.9	8700.3
47.5°	775.1	821.1	858.6	881.1	892.8	999.9	1412.0	2964.3	7055.9	8589.0	8994.7
50°	776.1	820.0	867.1	902.5	871.4	973.1	1383.1	3104.6	7454.2	8967.9	9227.0
52.5°	810.4	863.9	901.4	910.0	841.4	941.0	1368.2	3349.7	7925.2	9303.0	9461.5
55°	848.9	904.6	945.3	939.9	825.4	900.3	1364.9	3610.9	8441.2	9693.8	9766.6
57.5°	835.0	916.4	978.5	950.6	826.5	860.7	1351.0	3821.8	8872.7	9986.0	10068.5
58°	830.7	912.1	982.8	948.5	823.2	848.9	1347.8	3840.0	8932.6	10006.4	10111.3
60°	789.0	874.6	979.5	932.4	805.0	816.8	1312.5	3898.9	8916.5	9901.4	10137.0
62.5°	713.0	783.6	905.7	854.3	749.4	774.0	1233.3	3826.1	8481.9	9396.2	9761.2
65°	627.3	679.8	761.2	751.5	670.2	730.1	1125.1	3538.1	7611.6	8576.1	8960.4
67.5°	563.1	605.9	657.3	643.4	602.7	671.2	1008.5	3051.0	6635.2	7591.2	8075.1
70°	497.8	531.0	556.7	547.0	534.2	613.4	904.6	2476.2	5699.6	6655.6	7124.5
72.5°	431.4	462.5	483.9	470.0	462.5	552.4	820.0	1921.6	4501.6	5490.8	6093.5
75°	360.8	391.8	406.8	390.7	386.5	487.1	694.8	1435.6	3377.6	4232.9	4753.2
77.5°	279.4	312.6	331.9	326.5	328.7	400.4	561.0	982.8	2415.1	2885.1	3433.2
80°	195.9	232.3	245.2	239.8	254.8	305.1	396.1	624.1	1665.8	1872.4	2258.8
82.5°	121.0	155.2	157.4	162.7	173.4	225.9	298.7	380.0	1045.9	1081.2	1361.7
85°	61.0	73.9	79.2	87.8	97.4	138.1	170.2	235.5	673.4	509.6	761.2
87.5°	20.3	21.4	25.7	32.1	39.6	56.7	72.8	96.3	167.0	92.1	235.5
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4072.3	4072.3	4072.3	4072.3	4072.3	4072.3	4072.3	4072.3	4072.3	4072.3
2.5°	4559.4	4650.4	4716.8	4777.8	4719.0	4713.6	4655.8	4562.7	4524.1	4524.1
5°	4828.1	5041.2	5213.5	5323.8	5276.7	5163.2	4975.9	4737.1	4608.7	4586.2
7.5°	4902.0	5322.7	5642.8	5756.3	5677.1	5426.6	5067.9	4665.4	4481.3	4440.6
10°	4857.1	5404.1	5874.1	6053.9	5943.7	5564.7	5075.4	4581.9	4355.0	4307.9
12.5°	4809.9	5414.8	5916.9	6177.0	6105.3	5676.0	5130.0	4527.3	4265.0	4197.6
15°	4844.2	5419.1	5864.4	6133.1	6179.2	5809.8	5220.0	4566.9	4246.8	4175.1
17.5°	5060.5	5500.4	5789.5	6006.8	6168.5	5991.8	5475.8	4756.4	4409.6	4320.7
20°	5512.2	5695.3	5832.3	6000.4	6260.5	6363.3	5999.3	5276.7	4866.7	4788.5
22.5°	6820.4	6787.2	6506.8	6503.5	6880.4	7292.5	7267.9	6334.4	5717.8	5653.5
25°	7310.7	7156.6	6750.8	6652.4	6818.3	7454.2	7362.1	6550.6	5981.1	5824.8
27.5°	7119.1	6736.9	6470.4	6447.9	6393.3	6993.9	7215.5	6638.4	6073.2	5921.2
30°	7107.3	6545.3	6164.2	6209.1	6261.6	6835.4	7296.8	6913.6	6308.7	6146.0
32.5°	7136.2	6572.1	6186.7	6195.2	6351.5	6859.0	7386.7	7213.3	6618.1	6455.4
35°	7252.9	6724.1	6330.1	6309.8	6553.9	7013.1	7539.8	7684.4	7041.0	6855.8
37.5°	7441.3	7027.0	6592.4	6587.0	6941.4	7291.5	7730.4	8159.7	7461.7	7262.6
40°	7718.6	7381.4	7059.2	7030.3	7468.1	7744.3	7977.7	8666.0	7950.9	7695.1
42.5°	8053.7	7806.4	7674.7	7789.3	8210.0	8252.8	8363.1	9133.9	8367.4	8069.7
45°	8364.1	8352.4	8535.4	8839.5	9084.6	8827.7	8765.6	9447.5	8690.7	8367.4
47.5°	8733.5	9052.5	9604.9	10050.3	10307.2	9496.8	9109.2	9652.0	8926.2	8628.6
50°	9108.2	9890.7	10772.9	11393.8	11448.4	10223.7	9345.8	9844.7	9140.3	8830.9
52.5°	9502.1	10559.8	11734.2	12455.8	12349.8	10856.4	9574.9	9975.3	9360.8	9088.9
55°	9844.7	10969.8	12271.6	12964.3	12809.0	11241.8	9822.2	10116.6	9675.6	9446.5
57.5°	10036.3	11004.1	12137.8	12742.7	12574.6	11166.8	9935.7	10221.5	9876.8	9697.0
58°	10064.2	10958.1	12019.0	12614.2	12442.9	11103.7	9934.6	10217.3	9889.7	9708.7
60°	10039.5	10659.4	11576.8	12106.8	11926.9	10707.6	9894.0	10137.0	9726.9	9573.9
62.5°	9811.5	10141.2	10813.5	11198.9	11147.6	10088.8	9726.9	9834.0	9231.3	9083.6
65°	9511.8	9434.7	9836.1	10109.1	10147.7	9625.2	9561.0	9178.8	8595.4	8386.6
67.5°	9147.8	8633.9	8632.9	8788.1	8852.3	8912.3	9215.2	8466.9	7679.0	7458.5
70°	8530.1	7399.6	7059.2	7242.2	7188.7	7695.1	8597.5	7467.0	6574.2	6316.2
72.5°	7397.4	5871.9	5327.0	5562.5	5427.6	6034.6	7522.7	6144.9	5436.2	5119.3
75°	5996.1	4392.4	3830.4	4046.7	3963.1	4577.6	6259.5	4463.1	3898.9	3777.9
77.5°	4655.8	3182.7	2856.2	2826.2	2888.3	3406.5	4591.6	3013.6	2570.4	2487.9
80°	2991.1	2278.1	2297.4	2258.8	2291.0	2147.5	2787.7	1922.7	1740.7	1674.3
82.5°	1968.7	1587.6	1892.7	1747.1	1659.3	1444.2	1828.5	1259.0	1068.4	1032.0
85°	1341.4	1169.0	1064.1	813.6	958.1	1112.3	1371.4	677.7	537.4	487.1
87.5°	605.9	406.8	298.7	184.1	291.2	336.2	665.9	79.2	61.0	63.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)