

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: P454062

Luminaire Tested: **GALN-SA5A-827-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454062
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-SA5A-827-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA 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: 14512 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 154
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

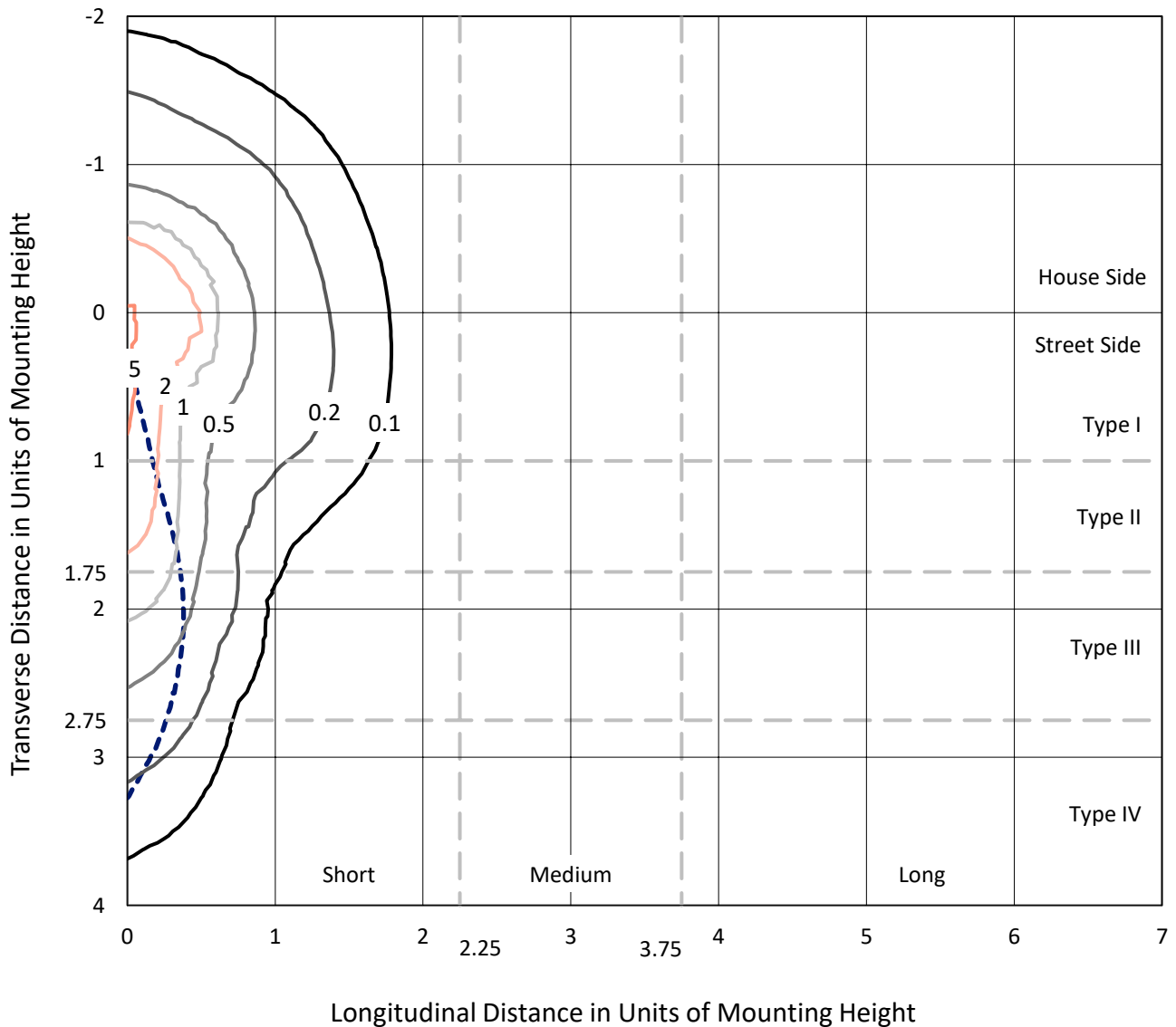




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Iso-Footcandle Lines of Horizontal Illumination

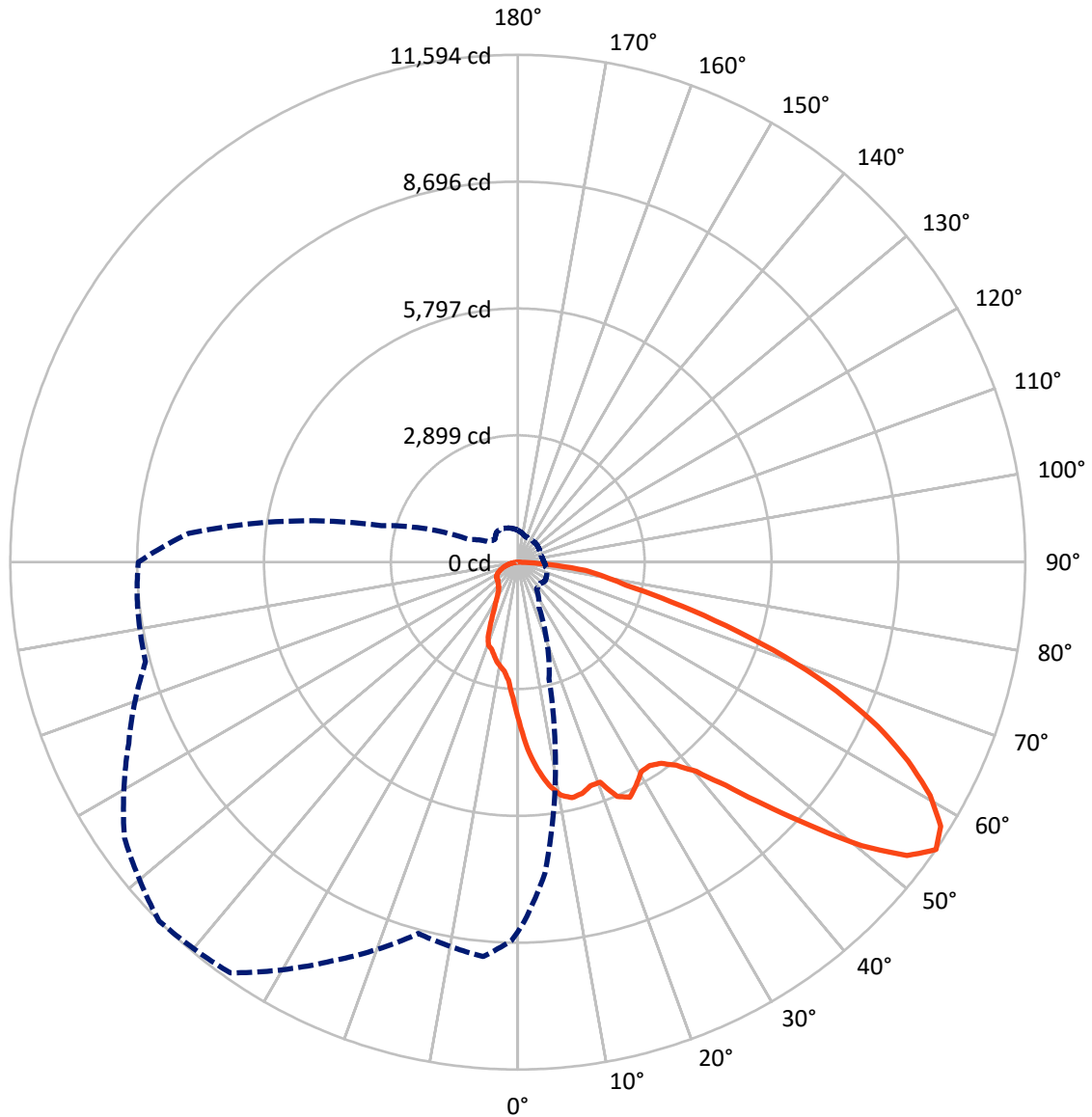
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	3174.4	0.0	3174.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	11337.6	0.0	11337.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	14512.0	0.0	14512.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.7	2.1
10°-20°	818.9	5.6
20°-30°	1414.7	9.7
30°-40°	1644.1	11.3
40°-50°	2293.8	15.8
50°-60°	3112.5	21.4
60°-70°	2961.2	20.4
70°-80°	1599.7	11.0
80°-90°	358.5	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°	14512.0	100.0
0°-180°	14512.0	100.0



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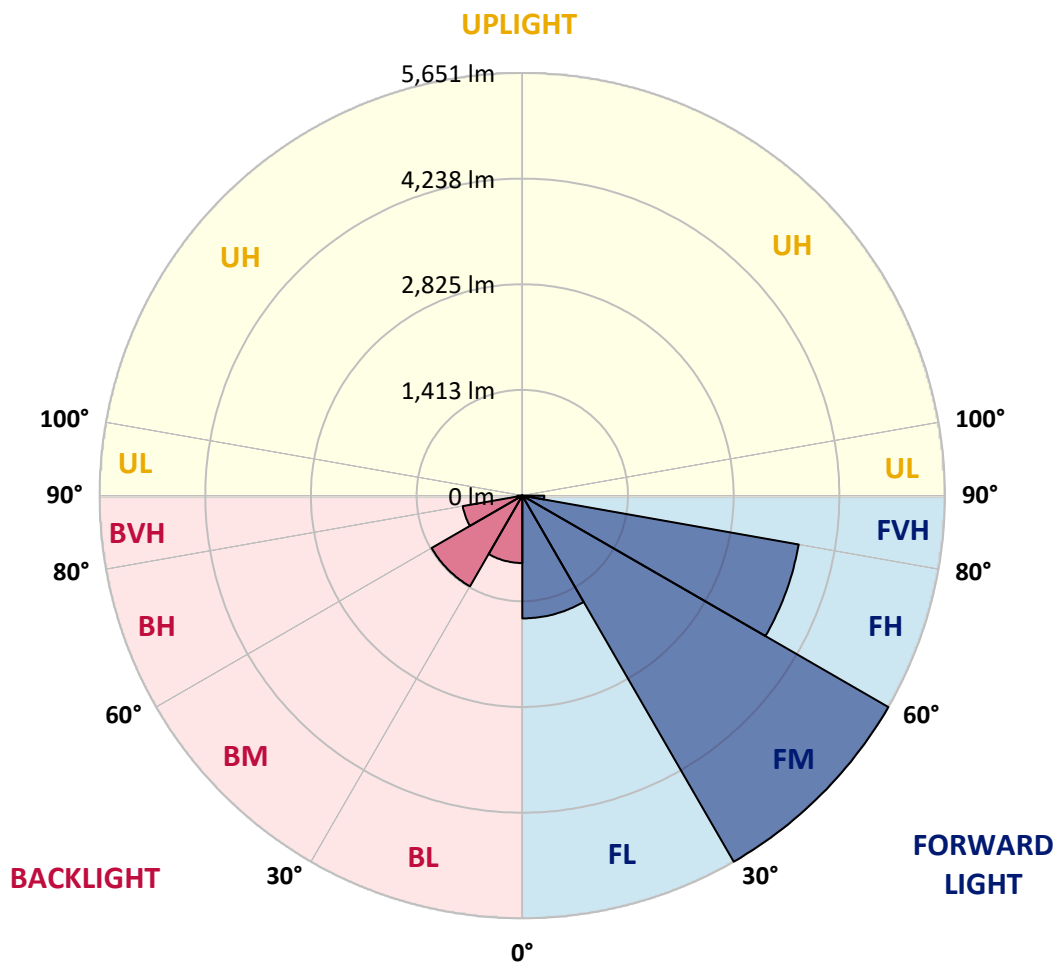
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1641.3	11.3			
FM	(30°-60°)	5650.7	38.9			
FH	(60°-80°)	3752.6	25.9			G2/5000
FVH	(80°-90°)	293.0	2.0			G3/500
BL	(0°-30°)	900.9	6.2	B2/1000		
BM	(30°-60°)	1399.7	9.6	B2/2500		
BH	(60°-80°)	808.3	5.6	B2/1000		G2/1000
BVH	(80°-90°)	65.5	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°	3641.9	3641.9	3641.9	3641.9	3641.9	3641.9	3641.9	3641.9	3641.9	3641.9	3641.9
2.5°	4046.0	4030.6	3987.6	3874.6	3760.7	3644.8	3555.8	3444.7	3328.9	3266.6	3187.2
5°	4101.5	4084.3	3982.8	3728.1	3497.4	3255.2	3061.8	2892.3	2823.4	2721.9	2640.5
7.5°	3971.3	3963.6	3811.4	3445.7	3129.7	2812.8	2593.6	2457.6	2334.1	2288.2	2297.8
10°	3852.6	3821.9	3631.4	3153.7	2785.1	2527.5	2370.5	2237.4	2150.3	2127.3	2132.1
12.5°	3754.0	3712.8	3487.8	2957.4	2634.8	2428.9	2228.8	2090.0	2010.5	2032.6	2107.2
15°	3733.9	3678.3	3427.5	2890.4	2552.4	2287.2	2068.0	1908.1	1848.7	1896.6	2016.3
17.5°	3864.1	3794.2	3530.9	2912.4	2473.9	2142.7	1873.6	1690.8	1641.0	1717.6	1873.6
20°	4282.4	4179.0	3853.5	3039.7	2466.3	2070.9	1760.7	1576.8	1597.9	1743.4	1906.2
22.5°	5056.0	4900.9	4418.4	3225.5	2506.5	2052.7	1737.7	1641.9	1757.8	1881.3	1988.5
25°	5209.2	5087.6	4519.9	3267.6	2497.9	2040.2	1802.8	1850.7	1979.9	2041.2	2003.8
27.5°	5295.4	5156.6	4513.2	3058.9	2233.6	1850.7	1723.3	1802.8	1835.3	1776.0	1674.5
30°	5496.4	5351.9	4627.1	2839.6	1839.2	1372.9	1203.5	1170.9	1192.9	1204.4	1168.0
32.5°	5773.1	5630.5	4841.6	2696.0	1590.2	1135.5	968.9	922.9	912.4	900.0	885.6
35°	6131.2	5911.9	5052.2	2604.1	1487.8	1050.3	897.1	861.7	847.3	830.1	814.7
37.5°	6495.0	6265.2	5318.4	2507.4	1419.8	990.9	849.2	832.9	808.0	789.9	767.8
40°	6881.8	6624.2	5560.6	2423.2	1353.8	952.6	814.7	812.8	780.3	759.2	733.4
42.5°	7216.9	6951.7	5776.9	2371.5	1303.0	912.4	793.7	799.4	765.9	734.3	700.8
45°	7483.0	7222.6	5977.0	2371.5	1261.9	872.2	789.9	786.0	752.5	713.3	675.0
47.5°	7716.6	7447.6	6172.4	2431.8	1236.0	838.7	768.8	775.5	741.0	691.2	653.9
50°	7897.6	7660.1	6435.6	2525.6	1210.2	811.9	742.0	778.4	731.5	679.8	636.7
52.5°	8128.3	7915.8	6752.5	2653.9	1188.1	782.2	718.0	778.4	730.5	680.7	633.8
55°	8448.1	8224.1	7134.5	2760.2	1152.7	754.4	697.0	756.3	727.6	675.9	626.1
57.5°	8672.1	8504.6	7404.5	2831.0	1102.0	719.0	677.8	735.3	715.2	657.7	603.2
58°	8682.6	8518.9	7443.8	2847.3	1089.5	712.3	673.1	725.7	709.4	650.1	595.5
60°	8562.0	8421.3	7451.4	2824.3	1018.7	678.8	648.2	686.5	678.8	605.1	554.3
62.5°	8123.5	7973.2	7142.2	2637.6	924.8	637.6	609.9	633.8	616.6	541.9	495.0
65°	7500.3	7223.6	6506.5	2344.7	857.8	593.6	558.2	560.1	541.9	488.3	447.1
67.5°	6670.2	6361.0	5508.9	1976.1	807.1	544.8	496.9	492.1	470.1	435.6	402.1
70°	5648.7	5437.1	4476.8	1607.5	750.6	491.1	428.0	425.1	411.7	385.8	356.2
72.5°	4578.3	4309.3	3615.1	1286.7	681.7	439.4	363.8	369.6	352.3	334.1	307.3
75°	3378.7	3202.5	2794.6	1032.1	588.8	383.0	303.5	305.4	297.8	278.6	257.5
77.5°	2225.0	2172.3	1999.0	677.8	452.8	304.5	248.0	249.9	244.1	226.9	204.9
80°	1497.4	1461.9	1354.7	436.6	302.5	220.2	191.5	193.4	192.4	174.2	144.6
82.5°	922.9	907.6	873.1	294.9	209.7	158.0	126.4	132.1	142.7	122.5	98.6
85°	435.6	436.6	527.5	160.8	123.5	101.5	68.9	73.7	73.7	73.7	55.5
87.5°	56.5	59.4	72.8	68.0	45.0	38.3	24.9	21.1	18.2	23.9	17.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3641.9	3641.9	3641.9	3641.9	3641.9	3641.9	3641.9	3641.9	3641.9	3641.9	3641.9
2.5°	3159.4	3140.3	3099.1	3089.5	3083.8	3100.1	3057.0	3068.5	3049.3	3102.9	3094.3
5°	2645.3	2647.2	2680.7	2702.7	2710.4	2702.7	2674.0	2624.2	2585.9	2570.6	2574.4
7.5°	2279.6	2313.1	2370.5	2434.7	2493.1	2510.3	2494.0	2399.2	2295.8	2230.7	2209.7
10°	2158.0	2203.0	2269.0	2319.8	2371.5	2412.6	2421.3	2347.5	2225.0	2070.9	2010.5
12.5°	2164.7	2226.0	2289.1	2305.4	2300.6	2316.9	2309.2	2296.8	2216.4	2020.1	1919.6
15°	2101.5	2174.3	2218.3	2209.7	2194.4	2180.0	2159.9	2128.3	2099.6	1961.7	1850.7
17.5°	1956.0	2030.6	2067.0	2069.9	2069.9	2066.1	2017.2	2005.8	2001.9	1934.9	1866.9
20°	1982.8	2023.9	2007.7	1980.9	1988.5	2014.4	1985.6	1979.9	2001.9	2031.6	2019.2
22.5°	1998.1	1983.7	1861.2	1742.5	1715.7	1796.1	1812.4	1876.5	1965.5	2072.8	2142.7
25°	1903.3	1787.5	1568.2	1434.2	1358.5	1433.2	1530.9	1649.6	1782.7	1920.5	2001.9
27.5°	1591.2	1503.1	1346.1	1225.5	1159.4	1170.9	1254.2	1362.4	1485.9	1578.8	1638.1
30°	1198.7	1159.4	1078.0	1036.9	996.7	987.1	1022.5	1063.7	1118.2	1129.7	1145.0
32.5°	882.7	877.0	881.8	868.4	860.7	859.7	849.2	858.8	864.5	871.2	857.8
35°	798.5	790.8	777.4	773.6	768.8	770.7	765.9	761.1	765.0	770.7	774.5
37.5°	755.4	743.9	724.8	718.0	718.0	720.9	713.3	711.3	718.0	736.2	745.8
40°	721.9	708.5	686.5	677.8	683.6	691.2	680.7	676.9	693.2	712.3	727.6
42.5°	690.3	679.8	658.7	649.1	653.9	668.3	652.9	650.1	671.1	692.2	710.4
45°	663.5	652.9	633.8	629.0	630.9	644.3	633.8	633.8	653.9	676.9	693.2
47.5°	642.4	629.0	616.6	612.7	614.7	622.3	620.4	620.4	639.5	663.5	679.8
50°	621.4	609.9	593.6	595.5	600.3	610.8	609.9	612.7	631.9	661.6	678.8
52.5°	611.8	594.5	576.4	578.3	592.6	605.1	601.2	604.1	626.1	681.7	706.6
55°	601.2	578.3	557.2	560.1	576.4	594.5	589.8	593.6	619.4	695.1	729.5
57.5°	581.1	554.3	531.4	533.3	557.2	576.4	568.7	573.5	604.1	680.7	717.1
58°	572.5	549.5	527.5	528.5	551.5	572.5	563.9	567.7	599.3	676.9	711.3
60°	536.1	522.7	503.6	504.5	526.6	544.8	540.0	543.8	574.4	649.1	675.0
62.5°	486.4	478.7	473.9	473.9	487.3	504.5	509.3	514.1	541.9	586.9	609.9
65°	432.7	432.7	433.7	433.7	442.3	464.3	467.2	479.7	505.5	527.5	544.8
67.5°	396.4	394.4	396.4	391.6	395.4	408.8	423.2	434.7	461.5	476.8	482.5
70°	349.5	348.5	349.5	342.7	347.5	359.0	368.6	387.7	415.5	427.0	429.9
72.5°	303.5	303.5	305.4	300.6	300.6	313.1	319.8	340.8	366.7	373.4	374.3
75°	255.6	258.5	258.5	251.8	253.7	261.4	270.0	287.2	311.2	315.9	315.9
77.5°	203.0	213.5	213.5	206.8	209.7	210.6	222.1	230.7	248.9	250.8	243.2
80°	147.4	158.0	166.6	160.8	165.6	159.9	166.6	172.3	190.5	181.9	169.5
82.5°	105.3	113.0	119.7	120.6	115.8	105.3	113.9	114.9	123.5	112.0	105.3
85°	58.4	65.1	73.7	69.9	62.2	55.5	58.4	60.3	59.4	56.5	52.7
87.5°	15.3	16.3	18.2	13.4	12.4	10.5	14.4	14.4	16.3	17.2	16.3
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°	3641.9	3641.9	3641.9	3641.9	3641.9	3641.9	3641.9	3641.9	3641.9	3641.9	3641.9
2.5°	3101.0	3143.1	3234.1	3303.0	3387.3	3489.7	3610.4	3731.9	3863.1	3904.3	3961.7
5°	2565.8	2671.1	2715.2	2840.6	2965.1	3151.8	3350.9	3581.6	3834.4	3956.0	4072.8
7.5°	2192.4	2248.9	2294.9	2386.8	2536.1	2763.1	3012.9	3301.1	3659.2	3836.3	4007.7
10°	1991.4	1997.1	2053.6	2167.6	2297.8	2497.9	2734.3	3057.0	3456.2	3671.6	3872.7
12.5°	1858.3	1833.4	1894.7	2013.4	2160.8	2345.6	2563.0	2870.3	3309.7	3530.9	3774.1
15°	1741.5	1702.3	1748.2	1869.8	2015.3	2232.7	2466.3	2791.8	3252.3	3509.8	3779.8
17.5°	1744.4	1636.2	1652.5	1754.9	1899.5	2120.6	2404.0	2788.9	3339.4	3636.2	3956.0
20°	1959.8	1786.5	1712.8	1731.9	1871.7	2113.0	2432.8	2922.9	3625.7	4058.4	4400.2
22.5°	2171.4	2067.0	1948.3	1909.1	1985.6	2238.4	2615.6	3239.8	4248.0	4900.0	5517.5
25°	2097.7	2186.7	2157.0	2101.5	2118.7	2328.4	2740.1	3500.3	4731.5	5465.8	6046.0
27.5°	1678.3	1840.1	1872.7	1871.7	1878.4	2050.7	2464.3	3325.0	4791.8	5574.0	6128.3
30°	1179.5	1193.9	1211.1	1244.6	1275.3	1429.4	1928.2	2919.1	4765.0	5622.8	6178.1
32.5°	851.1	870.3	894.2	940.2	1012.9	1209.2	1686.9	2789.9	4906.7	5824.8	6323.6
35°	778.4	800.4	823.4	876.0	945.0	1126.9	1591.2	2736.2	5139.3	6152.2	6585.0
37.5°	755.4	780.3	800.4	838.7	894.2	1067.5	1504.1	2699.9	5377.7	6498.8	6935.4
40°	739.1	767.8	784.1	814.7	853.0	1012.9	1426.5	2671.1	5608.4	6815.7	7216.9
42.5°	724.8	754.4	775.5	797.5	829.1	964.1	1357.6	2642.4	5808.5	7123.0	7497.4
45°	707.5	744.9	771.7	788.9	816.7	922.9	1304.9	2619.4	6036.4	7395.9	7780.8
47.5°	693.2	734.3	767.8	787.9	798.5	894.2	1262.8	2651.0	6310.2	7681.2	8044.1
50°	694.1	733.4	775.5	807.1	779.3	870.3	1237.0	2776.5	6666.4	8020.1	8251.8
52.5°	724.8	772.6	806.1	813.8	752.5	841.6	1223.6	2995.7	7087.6	8319.8	8461.5
55°	759.2	809.0	845.4	840.6	738.2	805.2	1220.7	3229.3	7549.1	8669.2	8734.3
57.5°	746.8	819.5	875.1	850.2	739.1	769.7	1208.2	3417.9	7934.9	8930.6	9004.3
58°	742.9	815.7	878.9	848.3	736.2	759.2	1205.4	3434.2	7988.5	8948.8	9042.6
60°	705.6	782.2	876.0	833.9	720.0	730.5	1173.8	3486.8	7974.2	8855.0	9065.6
62.5°	637.6	700.8	810.0	764.0	670.2	692.2	1102.9	3421.7	7585.5	8403.1	8729.6
65°	561.0	607.9	680.7	672.1	599.3	652.9	1006.2	3164.2	6807.1	7669.7	8013.4
67.5°	503.6	541.9	587.8	575.4	539.0	600.3	901.9	2728.6	5934.0	6788.9	7221.7
70°	445.2	474.9	497.8	489.2	477.7	548.6	809.0	2214.5	5097.2	5952.1	6371.5
72.5°	385.8	413.6	432.7	420.3	413.6	494.0	733.4	1718.5	4025.9	4910.5	5449.5
75°	322.6	350.4	363.8	349.5	345.6	435.6	621.4	1283.9	3020.6	3785.6	4250.9
77.5°	249.9	279.6	296.8	292.0	293.9	358.1	501.7	878.9	2159.9	2580.2	3070.4
80°	175.2	207.8	219.2	214.5	227.9	272.9	354.2	558.2	1489.7	1674.5	2020.1
82.5°	108.2	138.8	140.7	145.5	155.1	202.0	267.1	339.9	935.4	967.0	1217.8
85°	54.6	66.1	70.8	78.5	87.1	123.5	152.2	210.6	602.2	455.7	680.7
87.5°	18.2	19.1	23.0	28.7	35.4	50.7	65.1	86.2	149.4	82.3	210.6
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°	3641.9	3641.9	3641.9	3641.9	3641.9	3641.9	3641.9	3641.9	3641.9	3641.9
2.5°	4077.6	4158.9	4218.3	4272.9	4220.2	4215.4	4163.7	4080.4	4046.0	4046.0
5°	4317.9	4508.4	4662.5	4761.1	4719.0	4617.5	4450.0	4236.5	4121.6	4101.5
7.5°	4383.9	4760.2	5046.4	5147.9	5077.1	4853.1	4532.3	4172.3	4007.7	3971.3
10°	4343.7	4832.9	5253.2	5414.1	5315.5	4976.6	4539.0	4097.7	3894.7	3852.6
12.5°	4301.6	4842.5	5291.5	5524.2	5460.0	5076.1	4587.9	4048.8	3814.3	3754.0
15°	4332.2	4846.4	5244.6	5484.9	5526.1	5195.8	4668.3	4084.3	3798.0	3733.9
17.5°	4525.6	4919.1	5177.6	5372.0	5516.5	5358.6	4897.1	4253.7	3943.5	3864.1
20°	4929.6	5093.4	5215.9	5366.2	5598.9	5690.8	5365.3	4719.0	4352.3	4282.4
22.5°	6099.6	6069.9	5819.1	5816.2	6153.2	6521.8	6499.8	5664.9	5113.5	5056.0
25°	6538.1	6400.2	6037.4	5949.3	6097.7	6666.4	6584.0	5858.3	5349.0	5209.2
27.5°	6366.7	6024.9	5786.5	5766.4	5717.6	6254.7	6452.9	5936.8	5431.3	5295.4
30°	6356.2	5853.5	5512.7	5552.9	5599.8	6113.0	6525.6	6182.9	5642.0	5496.4
32.5°	6382.0	5877.5	5532.8	5540.5	5680.2	6134.1	6606.1	6451.0	5918.6	5773.1
35°	6486.4	6013.4	5661.1	5642.9	5861.2	6271.9	6743.0	6872.2	6296.8	6131.2
37.5°	6654.9	6284.4	5895.7	5890.9	6207.8	6520.8	6913.4	7297.3	6673.1	6495.0
40°	6902.8	6601.3	6313.1	6287.2	6678.8	6925.8	7134.5	7750.1	7110.6	6881.8
42.5°	7202.5	6981.4	6863.6	6966.0	7342.3	7380.6	7479.2	8168.5	7483.0	7216.9
45°	7480.2	7469.6	7633.3	7905.2	8124.5	7894.7	7839.2	8449.0	7772.2	7483.0
47.5°	7810.5	8095.8	8589.8	8988.1	9217.8	8493.1	8146.5	8631.9	7982.8	7716.6
50°	8145.5	8845.4	9634.3	10189.6	10238.4	9143.2	8358.1	8804.2	8174.3	7897.6
52.5°	8497.9	9443.8	10494.0	11139.3	11044.6	9709.0	8563.0	8921.0	8371.5	8128.3
55°	8804.2	9810.5	10974.7	11594.1	11455.3	10053.6	8784.1	9047.4	8653.0	8448.1
57.5°	8975.6	9841.1	10855.0	11395.9	11245.6	9986.6	8885.6	9141.2	8833.0	8672.1
58°	9000.5	9799.9	10748.7	11281.0	11127.8	9930.1	8884.7	9137.4	8844.5	8682.6
60°	8978.5	9532.8	10353.3	10827.2	10666.4	9575.9	8848.3	9065.6	8698.9	8562.0
62.5°	8774.6	9069.4	9670.7	10015.3	9969.4	9022.5	8698.9	8794.7	8255.7	8123.5
65°	8506.5	8437.6	8796.6	9040.7	9075.2	8608.0	8550.5	8208.7	7687.0	7500.3
67.5°	8181.0	7721.4	7720.5	7859.3	7916.7	7970.3	8241.3	7572.1	6867.4	6670.2
70°	7628.6	6617.5	6313.1	6476.8	6428.9	6881.8	7688.9	6677.9	5879.4	5648.7
72.5°	6615.6	5251.3	4764.0	4974.6	4854.0	5396.9	6727.6	5495.5	4861.7	4578.3
75°	5362.4	3928.2	3425.6	3619.0	3544.3	4093.8	5597.9	3991.4	3486.8	3378.7
77.5°	4163.7	2846.3	2554.3	2527.5	2583.1	3046.4	4106.3	2695.1	2298.7	2225.0
80°	2675.0	2037.3	2054.6	2020.1	2048.8	1920.5	2493.1	1719.5	1556.7	1497.4
82.5°	1760.7	1419.8	1692.7	1562.5	1484.0	1291.5	1635.2	1125.9	955.5	922.9
85°	1199.6	1045.5	951.7	727.6	856.9	994.7	1226.4	606.0	480.6	435.6
87.5°	541.9	363.8	267.1	164.7	260.4	300.6	595.5	70.8	54.6	56.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)