

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: P450957

Luminaire Tested: **GALN-SA1D-740-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-740-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6747 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

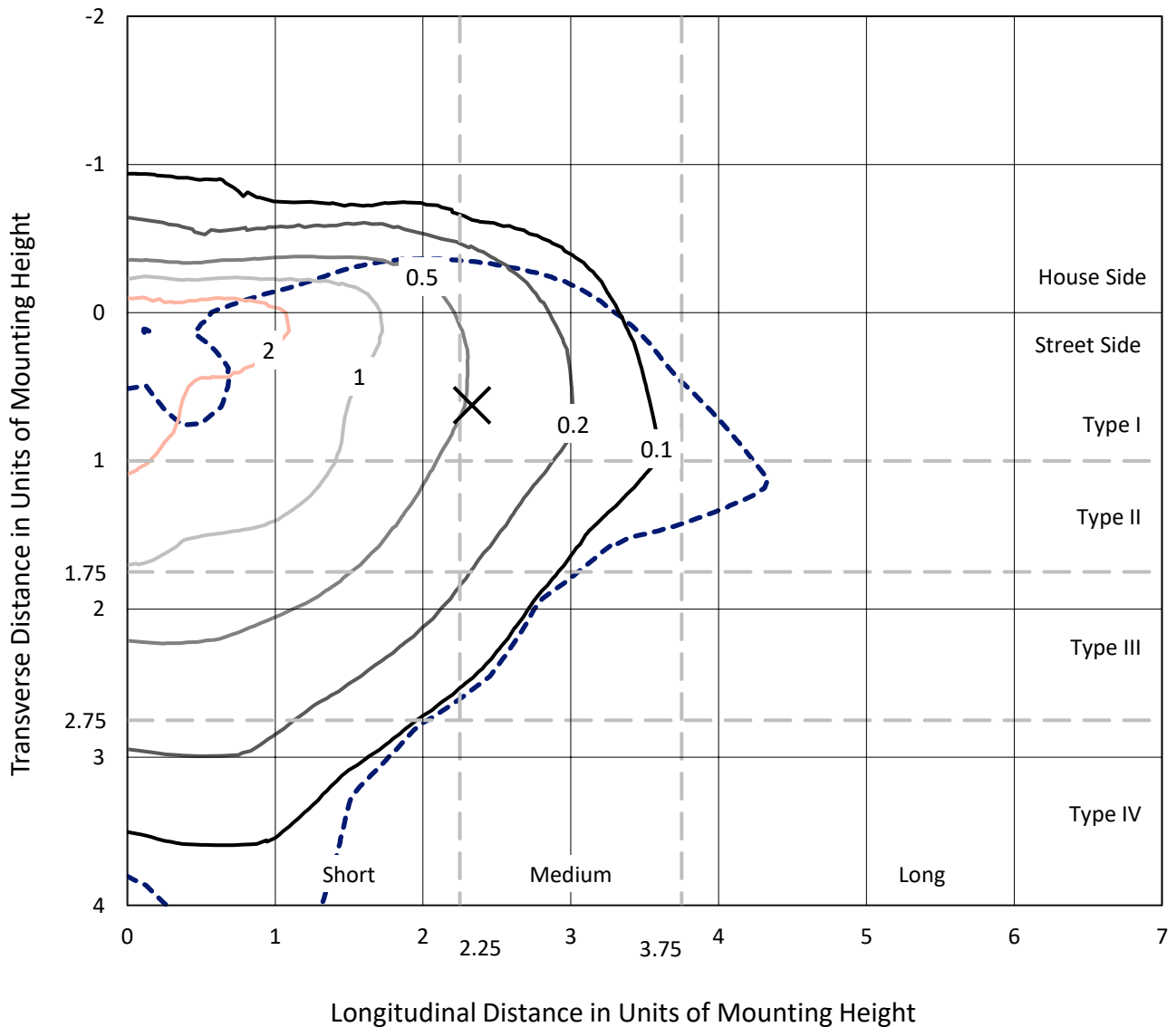
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

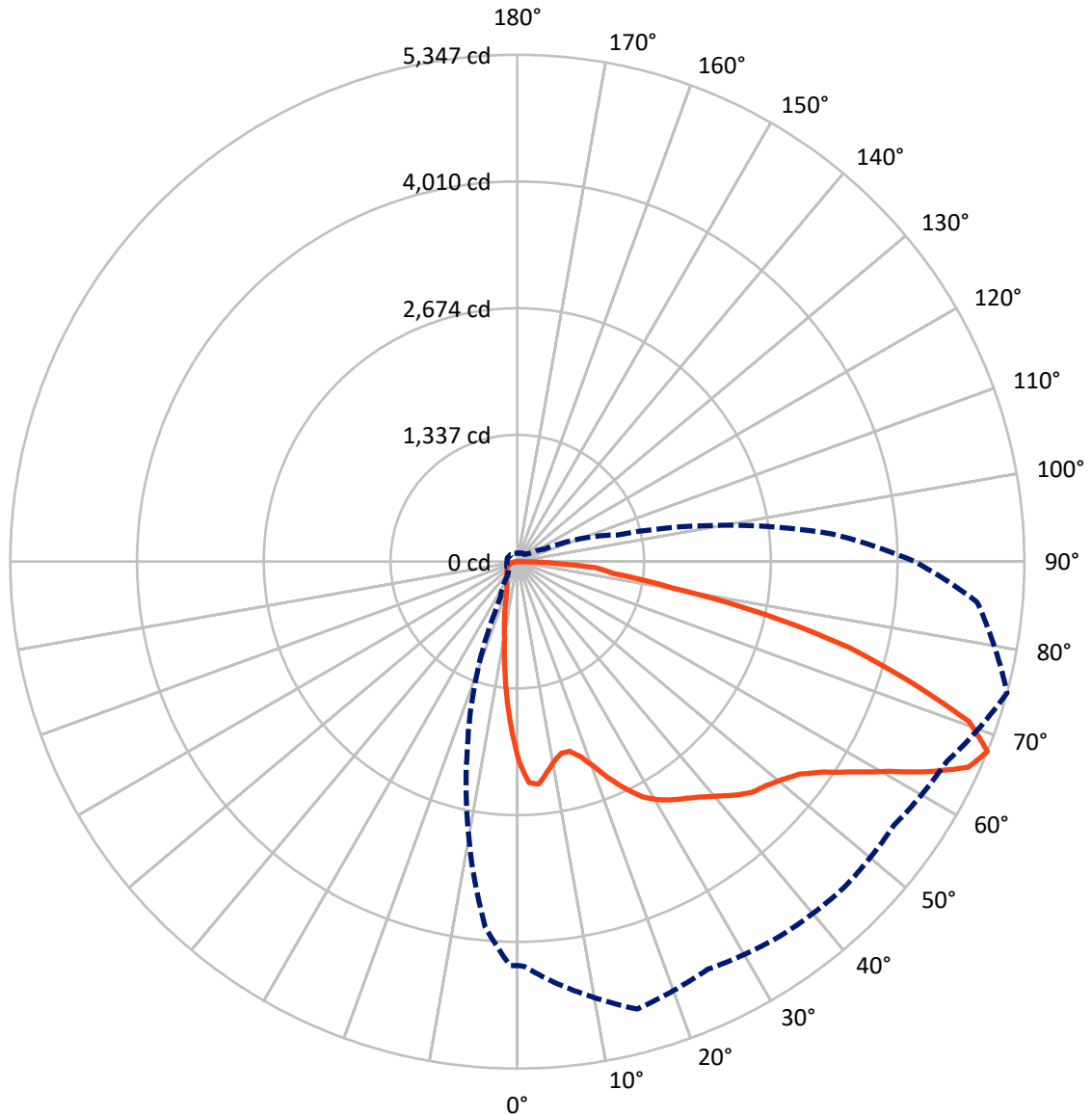
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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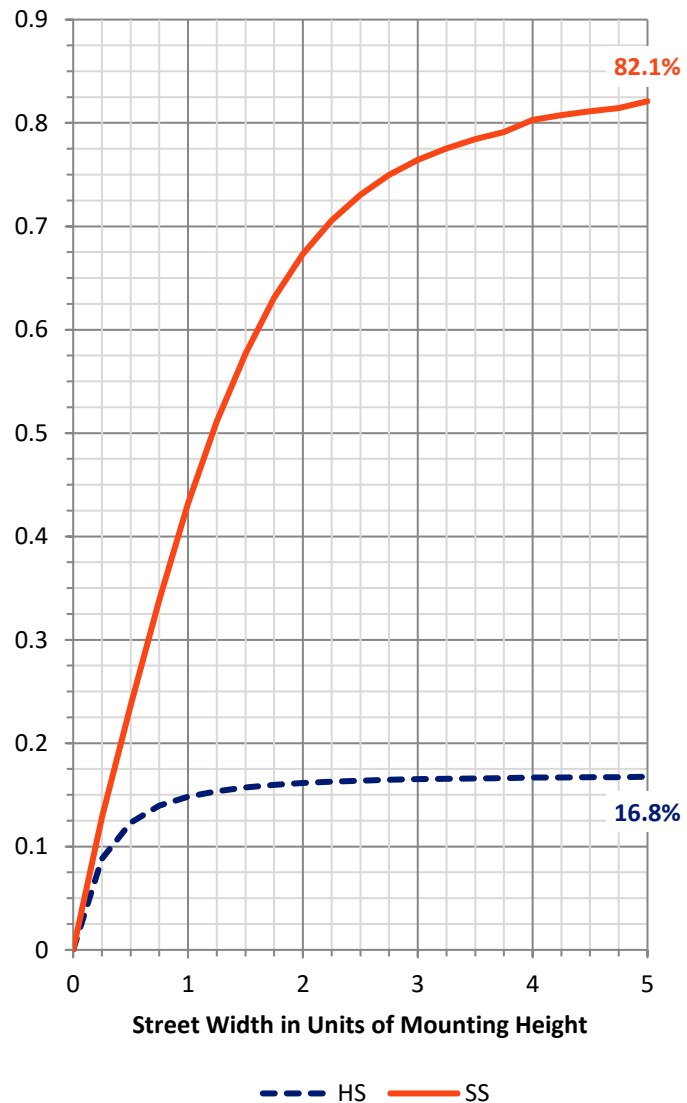
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1140.4	0.0	1140.4
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	5606.6	0.0	5606.6
	% Fixture	83.1	0.0	83.1
Total	Lumens	6747.0	0.0	6747.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.9	2.4
10°-20°	333.4	4.9
20°-30°	479.8	7.1
30°-40°	691.1	10.2
40°-50°	970.8	14.4
50°-60°	1353.9	20.1
60°-70°	1609.7	23.9
70°-80°	948.0	14.1
80°-90°	200.5	3.0
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°	6747.0	100.0
0°-180°	6747.0	100.0



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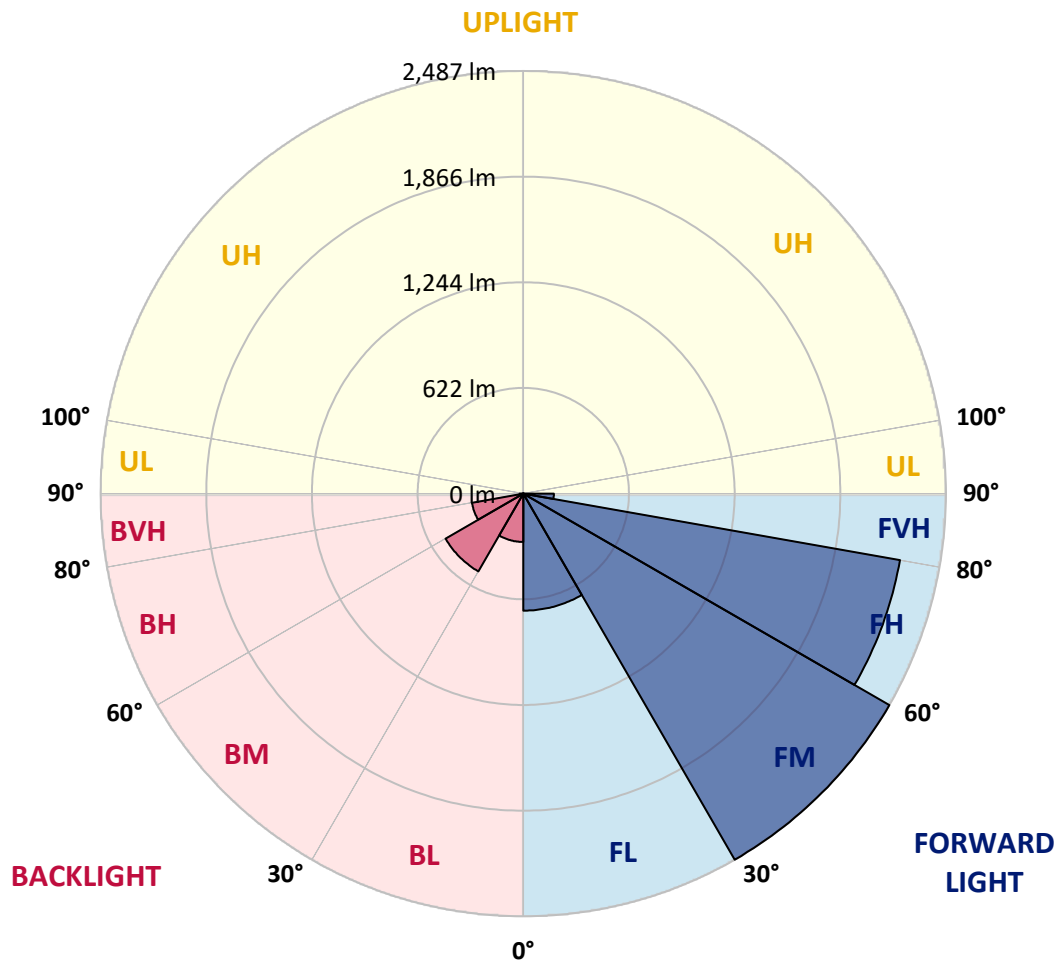
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	688.7	10.2			
FM (30°-60°)	2487.4	36.9			
FH (60°-80°)	2250.8	33.4			G2/5000
FVH (80°-90°)	179.7	2.7			G2/225
BL (0°-30°)	284.4	4.2	B1/500		
BM (30°-60°)	528.3	7.8	B1/1000		
BH (60°-80°)	306.9	4.5	B1/500		G1/500
BVH (80°-90°)	20.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9
2.5°	2272.8	2275.8	2295.3	2351.9	2390.9	2405.2	2415.1	2396.5	2378.3	2334.2	2267.6
5°	2265.8	2283.6	2334.2	2461.4	2561.8	2605.0	2618.0	2562.2	2470.1	2356.7	2220.4
7.5°	2133.4	2157.2	2235.1	2448.4	2625.4	2726.6	2713.2	2612.4	2446.3	2244.2	2053.8
10°	1976.4	2002.8	2096.7	2354.5	2582.6	2721.9	2721.9	2599.0	2378.3	2138.2	1918.8
12.5°	1851.8	1879.5	1986.8	2258.1	2493.4	2625.4	2647.5	2541.9	2329.4	2071.1	1830.2
15°	1810.7	1837.5	1953.0	2199.6	2399.1	2479.6	2486.9	2452.3	2305.6	2075.9	1826.3
17.5°	1861.7	1896.4	2013.2	2217.0	2312.6	2317.3	2323.0	2350.2	2308.2	2162.9	1905.0
20°	2009.3	2046.5	2168.5	2272.8	2236.9	2187.5	2190.6	2260.7	2339.0	2306.5	2093.2
22.5°	2222.1	2254.6	2379.6	2371.0	2204.8	2103.2	2082.0	2179.7	2384.4	2485.6	2293.5
25°	2451.9	2490.0	2633.6	2516.8	2213.9	2053.0	2039.6	2132.2	2431.6	2653.1	2525.0
27.5°	2714.9	2752.2	2865.5	2663.9	2261.5	2049.1	2033.1	2127.8	2474.0	2808.0	2746.1
30°	2910.5	2944.7	3021.7	2787.6	2319.9	2075.0	2055.1	2162.0	2510.3	2914.0	2961.6
32.5°	3064.1	3099.6	3141.5	2864.6	2396.9	2122.2	2085.4	2224.3	2557.9	2994.9	3121.2
35°	3224.2	3266.2	3263.1	2933.0	2468.8	2176.7	2140.8	2314.3	2632.7	3065.4	3323.7
37.5°	3427.1	3444.0	3422.3	2994.4	2554.9	2274.9	2255.0	2448.0	2739.2	3150.6	3560.4
40°	3633.1	3666.8	3555.6	3068.9	2659.6	2459.7	2457.5	2645.7	2865.5	3250.6	3789.7
42.5°	3809.6	3838.1	3680.2	3133.8	2786.3	2685.1	2701.5	2910.9	3031.2	3366.5	3974.0
45°	3942.4	3967.9	3795.3	3196.5	2953.3	2945.6	3042.5	3195.2	3240.2	3470.8	4082.2
47.5°	4055.3	4080.0	3875.3	3291.7	3159.7	3256.6	3425.4	3491.6	3418.9	3530.5	4203.3
50°	4150.5	4157.9	3930.3	3405.0	3415.9	3637.8	3801.4	3844.2	3595.4	3616.2	4308.4
52.5°	4249.6	4240.1	4025.0	3547.8	3692.8	3999.5	4118.5	4163.1	3764.6	3721.7	4461.6
55°	4471.5	4480.6	4237.5	3727.8	3972.7	4354.7	4511.4	4468.5	3951.9	3916.0	4656.3
57.5°	4739.8	4732.0	4536.4	4009.5	4257.8	4685.3	4802.1	4733.3	4202.0	4183.0	4853.6
60°	4844.1	4854.5	4786.5	4312.3	4539.0	4974.7	5094.1	4987.3	4501.8	4493.2	5002.4
62.5°	4739.4	4797.8	4843.6	4581.9	4778.7	5187.6	5306.1	5184.1	4814.6	4877.4	5106.7
65°	4530.8	4543.4	4699.6	4810.3	4894.3	5222.6	5284.5	5219.6	5076.0	5227.4	5101.9
67.5°	4260.0	4270.8	4453.8	4885.2	4745.4	4824.6	4867.9	4848.8	4995.1	5347.3	4867.0
70°	4002.1	3993.5	4186.9	4694.4	4131.0	4010.8	4046.7	3987.0	4310.2	5054.3	4406.2
72.5°	3500.2	3531.4	3739.1	4163.9	3270.9	3075.4	3153.7	2999.2	3315.0	4328.8	3576.4
75°	2741.8	2749.1	3095.7	3494.6	2467.5	2159.0	2265.0	2200.5	2539.3	3611.0	2469.6
77.5°	1898.5	1882.1	2254.6	2669.1	1759.6	1580.5	1582.2	1551.5	1773.0	2658.7	1677.9
80°	1205.8	1180.7	1411.3	1648.9	1209.3	1293.7	1251.3	1250.0	1154.3	1640.2	1014.6
82.5°	651.6	679.3	891.7	1033.6	867.5	999.9	916.4	889.6	792.2	1026.7	649.0
85°	296.8	322.8	475.5	703.1	658.9	666.3	445.2	525.2	655.5	833.7	346.6
87.5°	29.0	37.2	98.2	331.9	225.0	177.4	66.2	127.6	164.8	296.4	27.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9
2.5°	2240.3	2217.8	2141.2	2078.1	2011.0	1960.0	1893.3	1848.8	1818.0	1771.7	1766.1
5°	2137.3	2082.4	1949.1	1813.3	1696.0	1607.8	1518.2	1436.0	1387.5	1372.4	1352.9
7.5°	1963.8	1871.3	1699.9	1544.2	1409.6	1278.1	1176.8	1105.0	1057.0	1028.9	995.1
10°	1821.1	1713.8	1505.2	1314.4	1203.7	1121.9	1032.8	955.7	896.5	845.9	818.2
12.5°	1725.0	1603.9	1369.4	1214.5	1128.8	1041.8	937.6	851.0	763.6	706.1	681.4
15°	1696.0	1568.0	1327.4	1164.7	1041.8	928.1	811.2	698.3	611.8	557.3	539.1
17.5°	1767.0	1612.1	1327.0	1098.5	939.7	803.9	654.2	548.2	459.5	418.8	405.8
20°	1899.4	1696.9	1330.9	1033.2	829.0	637.7	475.9	389.0	346.6	329.3	322.8
22.5°	2084.1	1826.3	1342.5	968.7	707.8	489.8	356.5	312.4	297.2	294.2	292.9
25°	2311.7	1986.3	1381.9	910.8	605.7	373.8	298.1	278.2	269.5	266.5	266.1
27.5°	2521.1	2193.2	1429.5	861.0	507.1	322.3	269.5	252.7	244.0	243.6	244.5
30°	2710.2	2366.2	1469.3	805.2	432.2	286.4	250.9	234.1	225.8	225.4	228.0
32.5°	2873.7	2508.6	1498.7	750.2	390.7	264.4	234.1	215.9	209.0	207.7	209.0
35°	3048.5	2650.5	1485.3	707.4	366.9	246.2	221.5	203.8	195.6	191.7	191.7
37.5°	3248.0	2796.7	1462.4	671.9	356.1	231.0	210.7	193.4	185.2	181.3	180.9
40°	3465.6	2943.0	1430.8	640.3	345.3	222.0	203.4	185.2	175.2	171.3	170.5
42.5°	3657.7	3068.0	1404.8	619.6	327.5	223.7	196.9	179.1	166.6	161.4	160.9
45°	3824.7	3193.9	1400.1	607.5	312.8	221.1	195.1	174.4	159.7	154.0	153.2
47.5°	3955.4	3325.0	1427.3	600.5	296.8	207.2	206.4	171.3	153.6	147.5	146.7
50°	4114.6	3511.0	1489.7	586.3	282.1	194.3	218.1	170.9	148.8	141.0	138.9
52.5°	4326.6	3753.3	1574.0	560.7	260.9	182.2	208.1	170.9	143.2	135.4	132.8
55°	4647.2	4062.3	1656.7	524.8	231.0	166.1	187.8	165.7	135.0	128.1	126.3
57.5°	4859.6	4288.1	1709.4	475.1	193.8	154.5	161.8	157.5	126.8	119.4	119.4
60°	4870.5	4348.7	1684.3	412.3	170.5	143.6	140.6	158.8	119.4	111.6	110.8
62.5°	4745.9	4200.3	1553.7	356.1	157.9	132.0	127.2	139.3	112.1	104.3	103.0
65°	4551.2	3821.7	1327.0	329.3	151.0	121.6	114.7	114.2	104.3	96.9	95.2
67.5°	4193.3	3339.7	1090.3	313.7	147.5	109.9	103.4	101.2	95.2	89.1	88.3
70°	3665.9	2797.2	874.4	307.2	145.8	97.8	92.6	90.0	84.8	80.0	79.6
72.5°	2852.1	2268.9	721.7	302.9	144.9	86.5	80.9	77.4	74.4	70.1	70.1
75°	2048.6	1669.2	550.8	273.0	134.1	74.4	68.4	66.2	61.9	58.4	59.3
77.5°	1291.5	1124.1	362.6	200.8	103.8	59.7	54.5	53.2	49.8	45.0	48.0
80°	872.2	790.5	211.6	126.3	65.3	43.7	42.0	41.5	37.6	32.4	32.9
82.5°	593.6	582.4	109.9	71.8	37.6	25.5	24.7	25.5	21.2	17.3	17.3
85°	231.9	316.7	51.9	28.1	12.1	3.9	5.6	6.1	3.5	1.7	2.2
87.5°	4.3	32.4	1.3	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°	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9
2.5°	1757.5	1753.6	1760.1	1732.4	1738.0	1748.4	1753.6	1756.6	1799.4	1789.5	1816.7
5°	1371.1	1367.2	1392.3	1395.8	1408.7	1406.1	1418.7	1421.7	1437.3	1442.9	1481.0
7.5°	997.3	1014.2	1042.7	1057.4	1079.5	1086.4	1079.9	1095.9	1063.5	1086.8	1093.8
10°	801.3	781.0	768.8	802.6	806.9	838.9	825.9	815.6	834.6	835.5	853.6
12.5°	667.2	623.5	594.5	604.0	614.4	628.2	630.4	651.2	665.0	678.0	688.8
15°	523.1	507.9	481.6	468.6	483.3	488.9	502.3	519.6	534.3	538.2	552.9
17.5°	401.5	404.1	399.8	392.0	401.1	405.4	406.3	406.7	410.6	408.0	429.6
20°	323.2	332.3	343.1	344.8	347.9	350.0	346.1	331.4	331.9	340.9	347.9
22.5°	292.5	294.2	306.3	310.2	319.7	315.8	304.6	297.7	296.8	299.0	302.4
25°	268.2	270.8	279.5	285.6	292.9	286.0	277.8	271.3	270.4	272.6	276.0
27.5°	246.6	250.5	258.3	264.4	271.3	264.8	257.0	251.4	250.9	250.5	252.7
30°	229.3	233.6	239.3	246.2	250.9	245.3	238.0	234.9	234.5	233.6	234.5
32.5°	212.0	218.9	224.6	228.0	232.8	228.4	222.8	221.1	218.1	215.5	214.2
35°	192.5	199.9	208.5	212.9	217.6	213.3	209.4	202.1	196.9	196.4	197.3
37.5°	181.3	184.3	191.2	198.6	203.4	201.2	193.8	186.5	185.2	185.2	186.0
40°	171.3	172.6	175.7	185.2	193.8	187.3	178.3	176.1	176.1	175.7	176.1
42.5°	161.4	162.7	162.7	170.0	183.9	173.5	166.6	166.6	166.6	167.0	168.3
45°	152.3	152.7	152.3	157.5	170.5	161.8	157.1	158.4	159.2	160.1	160.9
47.5°	144.5	144.9	144.5	148.8	155.3	151.9	149.3	151.0	152.7	154.0	154.9
50°	137.6	137.2	138.0	140.6	143.6	144.5	142.8	145.4	146.2	148.0	150.1
52.5°	131.5	131.1	132.0	133.3	137.6	137.6	137.6	139.7	141.5	143.2	146.2
55°	124.6	125.0	126.3	128.1	133.7	132.8	133.3	135.0	136.7	139.3	141.0
57.5°	118.1	119.0	120.7	123.3	128.9	128.5	128.9	129.8	132.0	133.3	135.0
60°	110.8	112.5	114.7	116.4	122.0	121.6	123.7	125.5	126.8	126.8	127.6
62.5°	103.4	106.0	108.2	109.5	115.5	116.0	119.0	120.3	121.1	120.3	121.6
65°	96.1	99.9	100.8	102.5	108.6	109.0	112.5	115.5	114.7	113.8	116.0
67.5°	88.7	93.5	93.0	95.2	101.2	102.1	105.1	110.3	108.6	107.7	109.5
70°	80.5	83.9	84.4	85.7	93.9	92.6	97.3	102.1	100.8	101.2	101.2
72.5°	71.4	74.4	74.4	77.0	85.7	83.5	87.4	92.6	92.6	92.2	92.2
75°	60.6	62.3	64.0	67.9	77.0	74.4	77.0	81.8	82.6	81.8	81.8
77.5°	48.9	51.5	52.4	57.5	64.0	63.6	66.2	68.4	70.1	69.2	69.2
80°	34.6	37.2	40.7	46.3	50.2	51.5	52.8	54.5	55.4	55.4	56.2
82.5°	19.5	23.4	26.4	32.0	33.7	40.2	39.8	41.1	39.8	35.0	38.9
85°	4.3	8.2	11.7	14.7	16.9	23.4	24.7	27.7	22.9	21.2	21.2
87.5°	0.0	0.0	0.0	0.0	0.0	3.5	6.9	9.5	8.2	6.9	6.9
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°	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9	2107.9
2.5°	1839.7	1877.3	1922.7	2001.1	2056.0	2115.3	2175.0	2238.6	2255.5	2272.8
5°	1491.4	1565.4	1605.6	1710.7	1821.1	1961.3	2075.9	2201.4	2253.7	2265.8
7.5°	1129.7	1179.9	1285.4	1391.9	1528.6	1675.7	1851.4	2046.9	2107.9	2133.4
10°	895.6	964.0	1056.6	1170.8	1290.6	1449.0	1647.1	1875.6	1962.1	1976.4
12.5°	762.3	838.5	939.3	1060.0	1173.4	1292.8	1492.7	1728.5	1821.1	1851.8
15°	609.6	701.8	818.2	945.4	1068.7	1199.3	1401.8	1667.9	1774.8	1810.7
17.5°	479.0	553.4	679.3	817.3	963.5	1128.8	1382.8	1696.9	1828.4	1861.7
20°	366.5	419.7	525.7	671.5	842.8	1059.2	1387.5	1806.4	1963.8	2009.3
22.5°	316.7	344.0	408.4	547.3	739.0	998.6	1407.0	1956.5	2146.4	2222.1
25°	286.9	301.1	337.5	428.3	639.9	939.7	1451.6	2158.5	2401.7	2451.9
27.5°	261.3	271.7	294.2	359.5	549.9	885.2	1503.5	2382.7	2640.1	2714.9
30°	237.1	250.9	272.1	319.3	492.4	835.5	1568.8	2564.4	2840.8	2910.5
32.5°	218.5	232.3	251.8	291.2	443.5	783.1	1607.8	2724.0	3004.8	3064.1
35°	203.4	215.0	235.4	268.7	406.3	743.3	1600.0	2850.8	3163.6	3224.2
37.5°	192.5	202.5	222.8	247.5	378.1	701.8	1596.1	3018.2	3357.0	3427.1
40°	182.6	193.0	211.6	233.6	350.0	652.9	1598.2	3184.4	3563.0	3633.1
42.5°	174.8	186.5	201.6	229.7	321.0	613.5	1598.2	3328.9	3742.1	3809.6
45°	168.3	180.9	195.6	229.3	298.1	583.7	1587.4	3453.1	3884.9	3942.4
47.5°	162.7	176.5	197.7	221.5	292.5	562.0	1577.9	3552.6	4001.2	4055.3
50°	158.8	175.2	210.3	212.4	294.2	555.5	1623.8	3678.0	4103.8	4150.5
52.5°	155.8	175.7	209.8	199.0	291.2	559.9	1719.4	3874.0	4246.1	4249.6
55°	149.7	175.2	199.0	183.9	278.6	567.2	1842.3	4158.7	4469.0	4471.5
57.5°	143.6	170.5	184.7	170.9	253.1	567.2	1990.2	4428.3	4737.6	4739.8
60°	137.6	177.4	162.2	159.7	219.8	556.8	2146.4	4546.8	4822.0	4844.1
62.5°	131.5	178.7	144.9	149.7	195.6	531.7	2262.8	4415.7	4707.8	4739.4
65°	124.6	144.1	133.7	139.3	183.0	489.8	2226.0	4175.6	4493.2	4530.8
67.5°	116.4	122.0	121.6	128.5	178.7	427.9	2032.2	3871.9	4262.1	4260.0
70°	106.4	109.5	110.8	118.1	170.5	379.9	1693.4	3477.7	3953.7	4002.1
72.5°	96.1	98.6	99.9	106.4	162.2	352.6	1314.4	2934.7	3424.5	3500.2
75°	84.8	86.5	88.3	93.9	153.6	312.4	936.3	2240.3	2622.8	2741.8
77.5°	73.1	73.1	75.3	80.9	129.4	257.9	628.2	1571.4	1776.9	1898.5
80°	59.3	59.7	58.8	64.9	95.2	176.5	356.9	1049.6	1182.5	1205.8
82.5°	45.4	44.1	44.6	47.6	71.0	120.3	190.4	652.0	664.6	651.6
85°	28.6	28.6	27.7	31.2	45.4	62.7	103.8	399.3	311.9	296.8
87.5°	11.7	9.5	10.8	12.5	21.6	25.5	40.7	82.2	31.6	29.0
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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