

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: P651734

Luminaire Tested: **GALN-SA2A-840-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-840-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4275.7 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

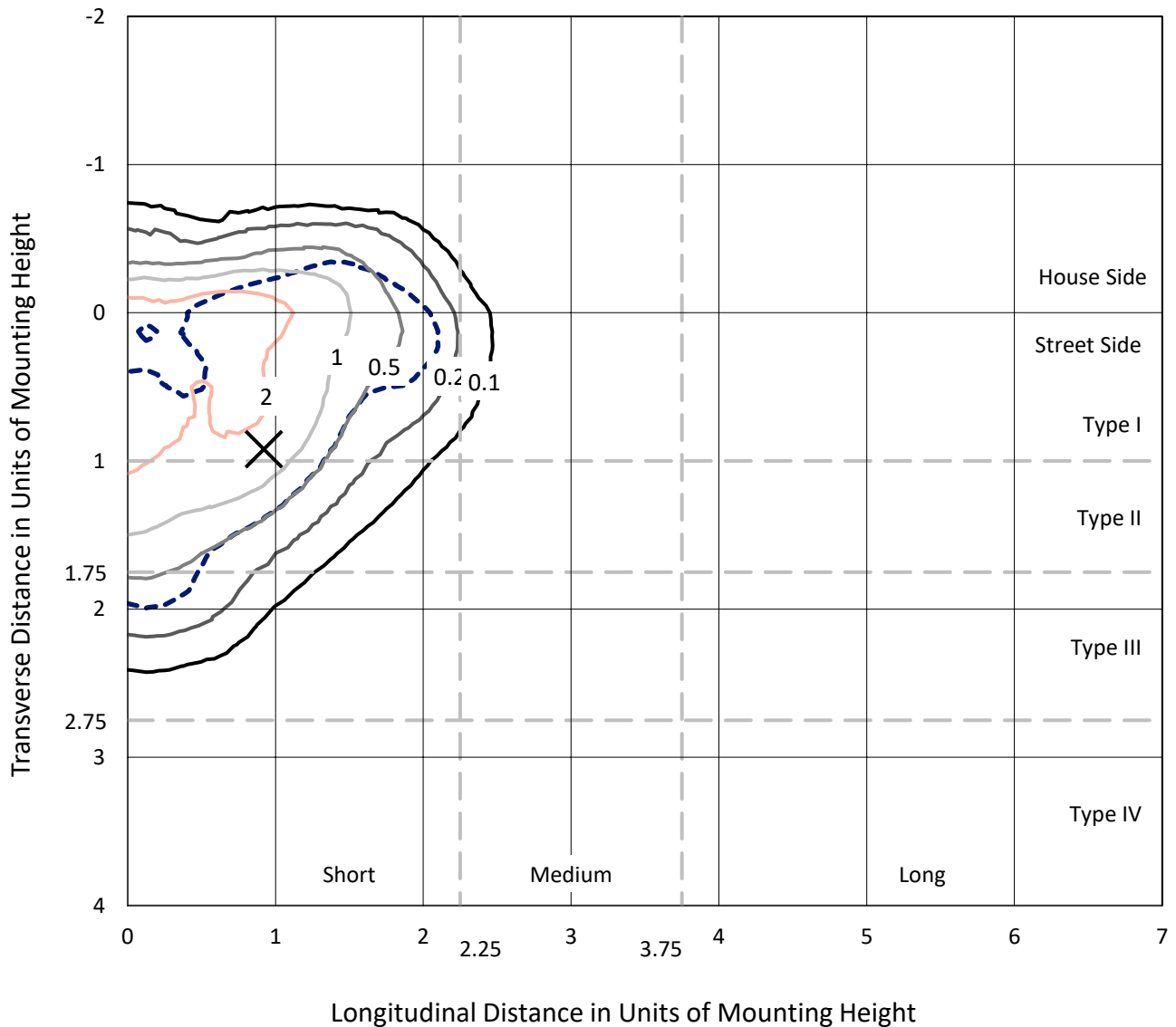
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

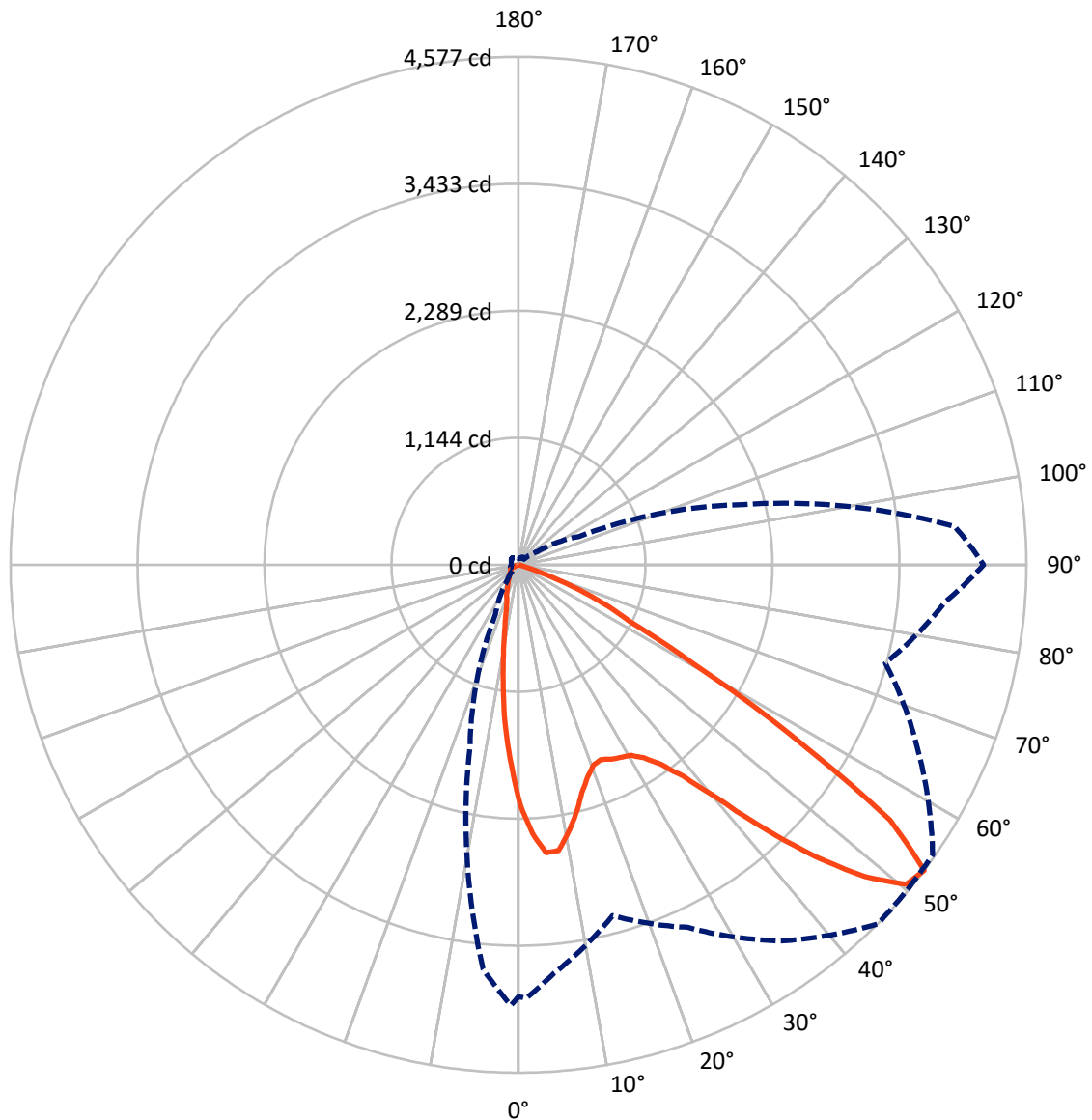
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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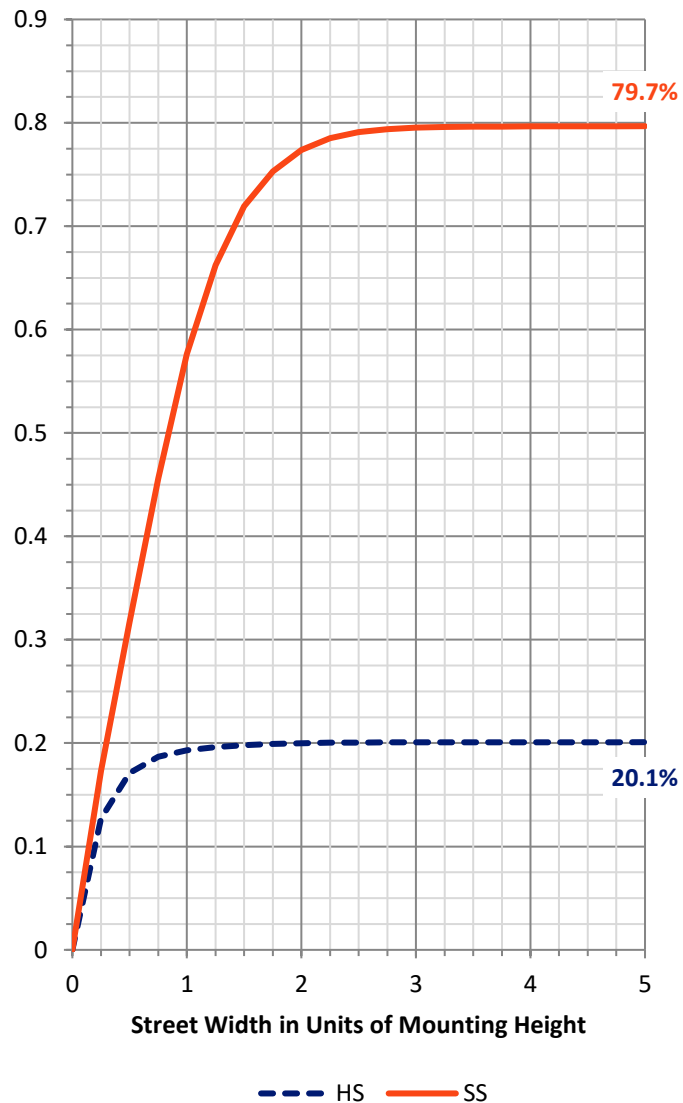
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	867.8	0.0	867.8
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	3407.9	0.0	3407.9
	% Fixture	79.7	0.0	79.7
Total	Lumens	4275.7	0.0	4275.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.1	3.7
10°-20°	311.9	7.3
20°-30°	474.7	11.1
30°-40°	709.5	16.6
40°-50°	1010.4	23.6
50°-60°	1086.2	25.4
60°-70°	481.3	11.3
70°-80°	38.9	0.9
80°-90°	4.5	0.1
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°	4275.7	100.0
0°-180°	4275.7	100.0

Coefficient of Utilization

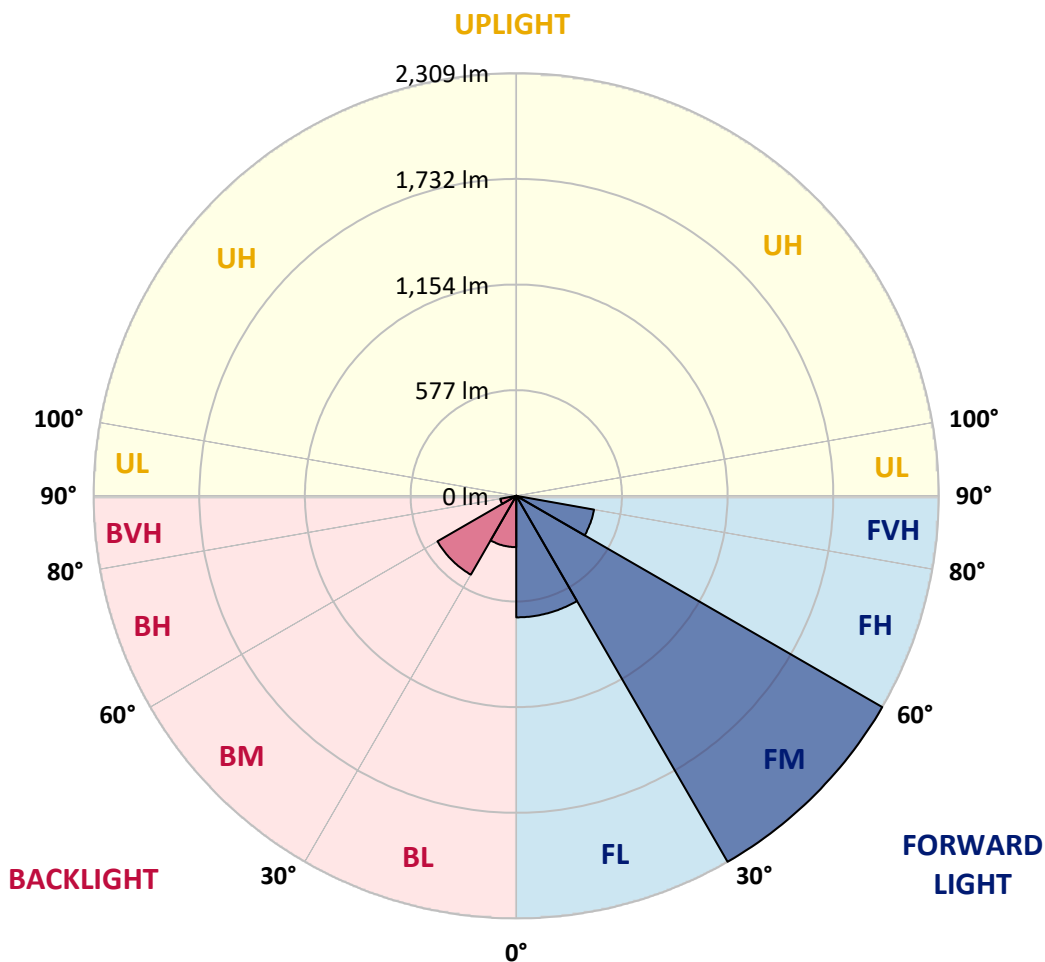


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	664.1	15.5			
FM (30°-60°)	2309.0	54.0			
FH (60°-80°)	431.5	10.1			G0/660
FVH (80°-90°)	3.4	0.1			G0/10
BL (0°-30°)	280.7	6.6	B1/500		
BM (30°-60°)	497.1	11.6	B1/1000		
BH (60°-80°)	88.8	2.1	B0/110		G0/110
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2167.9	2167.9	2167.9	2167.9	2167.9	2167.9	2167.9	2167.9	2167.9	2167.9	2167.9
2.5°	2294.1	2300.8	2337.8	2384.1	2408.5	2464.0	2425.3	2435.4	2414.3	2340.3	2282.3
5°	2224.3	2223.4	2270.5	2384.9	2493.4	2603.6	2606.9	2548.1	2444.6	2331.1	2168.8
7.5°	2014.0	2046.8	2095.6	2278.1	2479.1	2561.5	2601.0	2532.1	2373.1	2210.8	2035.1
10°	1855.1	1871.9	1954.3	2174.7	2321.8	2432.0	2456.4	2416.9	2294.9	2092.2	1895.4
12.5°	1763.5	1771.9	1868.5	2053.6	2209.1	2290.7	2302.5	2321.0	2233.5	2043.5	1807.2
15°	1764.3	1771.1	1901.3	2056.1	2117.5	2095.6	2134.3	2133.4	2171.3	2034.2	1881.1
17.5°	1891.2	1898.8	2016.5	2093.1	2066.2	2014.9	2012.3	2051.0	2130.9	2149.4	1993.0
20°	2109.9	2127.6	2214.2	2210.0	2058.6	1955.2	1926.6	1956.0	2141.9	2247.0	2218.4
22.5°	2404.3	2428.6	2489.2	2373.1	2093.1	1914.8	1905.5	1962.7	2214.2	2464.8	2474.1
25°	2745.7	2786.9	2816.3	2667.5	2215.9	1984.6	1940.9	2039.3	2311.7	2701.1	2799.5
27.5°	2971.9	3014.8	3008.1	2795.3	2298.3	2003.1	1966.1	2057.8	2396.7	2757.5	2969.4
30°	3148.5	3174.5	3221.6	2864.3	2380.7	2055.2	1992.2	2136.0	2424.4	2855.0	3174.5
32.5°	3354.5	3372.2	3375.5	2986.2	2507.7	2120.8	2072.9	2233.5	2547.2	2948.4	3356.2
35°	3562.2	3588.3	3533.6	3136.7	2585.9	2242.8	2207.5	2402.6	2645.6	3045.1	3556.3
37.5°	3787.6	3801.1	3674.9	3198.9	2697.8	2441.3	2421.9	2585.1	2816.3	3219.9	3778.4
40°	3976.8	3989.5	3825.5	3275.4	2815.5	2718.8	2768.4	2933.2	3048.5	3333.5	3889.4
42.5°	4082.0	4111.4	3875.9	3233.4	3051.8	3033.3	3253.6	3311.6	3317.5	3365.4	3988.6
45°	4110.6	4097.1	3792.7	3267.9	3258.6	3550.4	3750.6	3827.1	3584.9	3424.3	4013.8
47.5°	3978.5	3996.2	3669.9	3237.6	3530.3	3942.4	4201.4	4343.4	3784.2	3373.0	3951.6
50°	3871.7	3849.0	3630.3	3215.7	3603.4	4127.4	4526.8	4558.7	3967.6	3436.1	3883.5
52.5°	3892.7	3907.0	3693.4	3273.8	3605.1	4138.3	4577.2	4555.4	3973.5	3421.8	3859.1
55°	3937.3	3874.2	3666.5	3145.9	3363.7	3833.0	4062.6	4029.0	3667.3	3269.6	3799.4
57.5°	3397.4	3494.9	3371.3	2808.8	2760.8	2887.8	2883.6	2987.1	2735.6	2813.8	3458.8
60°	2757.5	2774.3	2820.5	2402.6	1910.6	1866.9	1806.4	1740.8	1840.9	2405.9	3145.9
62.5°	2425.3	2405.1	2569.9	2185.6	1348.9	1129.4	1119.3	1159.7	1420.4	2294.9	2950.9
65°	1762.7	1787.9	1907.2	1696.2	1012.5	861.9	846.8	966.2	1149.6	1839.2	2252.0
67.5°	1076.4	1125.2	1136.1	1046.1	687.0	545.8	523.9	632.3	830.0	1189.9	1320.3
70°	497.0	555.9	611.4	571.0	397.8	224.5	211.9	265.8	418.8	684.5	700.5
72.5°	150.5	151.4	211.9	221.2	128.7	50.5	44.6	58.9	142.1	226.2	238.0
75°	10.9	11.8	28.6	32.8	24.4	12.6	13.5	16.0	30.3	50.5	37.8
77.5°	0.8	0.8	0.8	4.2	7.6	8.4	10.9	12.6	16.0	18.5	16.8
80°	0.8	0.0	0.8	3.4	5.9	8.4	10.1	11.8	12.6	14.3	12.6
82.5°	0.0	0.0	0.0	2.5	5.9	8.4	9.3	12.6	14.3	16.8	14.3
85°	0.0	0.0	0.0	2.5	5.9	9.3	8.4	4.2	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2167.9	2167.9	2167.9	2167.9	2167.9	2167.9	2167.9	2167.9	2167.9	2167.9	2167.9
2.5°	2292.4	2259.6	2184.7	2146.9	2057.8	2045.1	1957.7	1943.4	1913.9	1898.0	1859.3
5°	2097.3	2057.8	1935.8	1833.3	1713.9	1630.6	1566.7	1508.7	1475.0	1443.9	1458.2
7.5°	1938.3	1823.2	1687.8	1516.2	1378.3	1289.2	1191.6	1111.7	1064.6	1032.7	1040.2
10°	1771.9	1697.1	1508.7	1316.1	1149.6	1086.5	1010.0	948.6	882.1	824.9	798.0
12.5°	1719.8	1608.7	1372.4	1176.5	1050.3	988.9	901.5	830.8	745.9	676.1	651.7
15°	1729.0	1622.2	1335.4	1126.0	977.2	871.2	766.9	679.4	586.2	537.4	512.2
17.5°	1879.5	1694.5	1359.8	1073.0	875.4	728.2	599.6	488.6	418.8	368.4	357.4
20°	2064.5	1851.0	1412.0	1034.3	792.1	579.4	438.2	342.3	284.3	275.8	273.3
22.5°	2335.3	2106.5	1523.8	1008.3	690.4	451.6	300.2	248.9	233.0	231.3	232.1
25°	2713.7	2427.0	1645.8	986.4	613.9	348.2	245.6	211.1	206.0	203.5	207.7
27.5°	2877.7	2620.4	1710.5	939.3	544.1	313.7	242.2	209.4	195.1	190.9	193.4
30°	3080.4	2749.1	1812.3	858.6	441.5	258.2	226.2	227.9	221.2	200.2	193.4
32.5°	3349.5	2909.7	1863.5	801.4	394.4	213.6	165.7	152.2	169.9	173.2	179.1
35°	3521.9	3072.8	1889.6	767.7	370.0	182.5	140.4	127.8	123.6	124.5	127.8
37.5°	3842.3	3293.1	1922.4	732.4	351.5	158.9	127.0	115.2	109.3	109.3	112.7
40°	4034.0	3468.0	1966.9	713.1	333.0	144.7	115.2	105.1	100.1	100.1	101.8
42.5°	4082.0	3554.7	1951.8	706.4	312.0	141.3	105.1	97.6	91.7	90.8	90.0
45°	4167.7	3686.7	1954.3	698.8	290.1	128.7	99.2	90.8	82.4	81.6	80.7
47.5°	4261.9	3781.7	1959.4	669.4	269.1	107.6	103.4	84.1	74.0	72.3	72.3
50°	4181.2	3857.4	2003.1	639.9	242.2	87.5	101.8	79.1	65.6	63.1	63.9
52.5°	4191.3	3946.6	2095.6	598.8	208.6	69.8	82.4	74.8	59.7	55.5	56.3
55°	4029.8	3852.4	2108.2	555.1	163.2	53.8	63.1	65.6	50.5	48.8	48.8
57.5°	3468.9	3262.0	1860.1	449.9	107.6	44.6	45.4	57.2	43.7	42.0	42.9
60°	2968.6	2618.7	1496.9	296.9	67.3	35.3	32.8	58.0	38.7	37.8	40.4
62.5°	2706.2	2152.0	1135.3	184.2	46.3	26.9	22.7	47.1	33.6	33.6	37.0
65°	1955.2	1445.6	660.1	96.7	32.8	21.0	16.8	26.9	27.8	28.6	30.3
67.5°	1211.0	729.9	278.4	47.1	21.9	14.3	10.9	16.8	18.5	18.5	20.2
70°	598.0	291.0	92.5	26.9	16.8	11.8	7.6	9.3	9.3	8.4	9.3
72.5°	185.0	87.5	23.5	16.8	11.8	7.6	4.2	3.4	1.7	0.0	0.8
75°	21.0	16.8	15.1	11.8	7.6	3.4	0.8	0.0	0.0	0.0	0.0
77.5°	12.6	14.3	14.3	11.8	7.6	2.5	0.0	0.0	0.0	0.0	0.0
80°	10.1	10.9	11.8	10.9	6.7	3.4	0.0	0.0	0.0	0.0	0.0
82.5°	12.6	14.3	16.0	14.3	9.3	4.2	1.7	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	2.5	0.8	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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°	2167.9	2167.9	2167.9	2167.9	2167.9	2167.9	2167.9	2167.9	2167.9	2167.9	2167.9
2.5°	1843.4	1824.9	1851.0	1812.3	1811.4	1812.3	1801.3	1791.2	1807.2	1850.1	1854.2
5°	1406.9	1446.4	1459.1	1500.3	1477.6	1443.9	1450.6	1427.9	1483.4	1507.8	1488.5
7.5°	1024.3	1021.7	1106.7	1111.7	1122.7	1123.5	1121.8	1077.2	1031.8	1041.9	1072.2
10°	794.7	751.8	793.0	788.8	815.7	808.1	819.0	771.1	787.1	787.1	806.4
12.5°	647.5	602.2	594.6	583.7	594.6	598.8	603.0	593.7	620.6	633.2	646.6
15°	494.5	469.3	462.6	441.5	444.9	456.7	466.8	471.0	462.6	481.9	483.6
17.5°	359.1	358.3	362.5	361.6	358.3	355.7	354.9	344.0	340.6	342.3	349.0
20°	272.5	279.2	293.5	307.8	315.4	306.1	293.5	275.0	267.4	269.1	270.0
22.5°	233.0	243.0	262.4	278.4	285.9	269.1	246.4	230.4	227.1	226.2	225.4
25°	211.1	222.9	237.2	242.2	241.4	231.3	214.5	207.7	206.0	204.4	196.8
27.5°	199.3	203.5	206.0	211.9	214.5	207.7	203.5	193.4	191.7	191.7	186.7
30°	192.6	190.1	193.4	189.2	192.6	187.5	188.4	188.4	184.2	185.9	185.9
32.5°	179.1	180.0	180.0	171.6	174.1	168.2	174.1	179.1	180.0	180.8	187.5
35°	131.2	146.3	153.9	153.9	156.4	152.2	151.4	145.5	137.9	130.4	127.0
37.5°	115.2	121.1	131.2	137.1	141.3	137.9	130.4	121.1	116.9	113.5	110.2
40°	102.6	107.6	114.4	121.1	129.5	125.3	113.5	109.3	104.3	104.3	100.9
42.5°	92.5	95.0	99.2	109.3	118.6	110.2	101.8	98.4	95.9	95.0	94.2
45°	83.3	84.1	88.3	96.7	107.6	99.2	90.8	86.6	87.5	88.3	87.5
47.5°	74.8	76.5	79.1	89.1	95.9	91.7	82.4	79.9	79.9	79.9	80.7
50°	64.8	69.0	74.0	82.4	87.5	84.9	77.4	74.0	72.3	72.3	73.2
52.5°	58.0	61.4	68.1	78.2	84.9	80.7	73.2	68.1	64.8	63.9	65.6
55°	50.5	56.3	67.3	74.8	84.1	79.9	71.5	65.6	59.7	58.9	58.9
57.5°	45.4	54.7	64.8	74.0	81.6	78.2	71.5	63.9	56.3	55.5	55.5
60°	42.9	53.0	63.1	71.5	81.6	76.5	70.6	62.2	53.8	53.8	53.0
62.5°	40.4	49.6	59.7	68.1	78.2	74.0	68.1	59.7	51.3	51.3	49.6
65°	33.6	42.9	49.6	57.2	68.1	63.9	58.0	52.1	45.4	43.7	44.6
67.5°	23.5	29.4	36.2	43.7	50.5	48.8	46.3	42.0	36.2	35.3	34.5
70°	11.8	16.0	21.9	29.4	35.3	33.6	32.0	28.6	25.2	24.4	24.4
72.5°	1.7	5.0	9.3	13.5	18.5	19.3	18.5	17.7	16.8	16.0	16.8
75°	0.0	0.0	0.0	3.4	7.6	9.3	10.9	12.6	12.6	10.9	13.5
77.5°	0.0	0.0	0.0	0.0	0.8	4.2	8.4	10.9	13.5	11.8	16.0
80°	0.0	0.0	0.0	0.0	0.8	5.0	8.4	11.8	13.5	11.8	16.8
82.5°	0.0	0.0	0.0	0.0	0.8	5.9	8.4	10.9	12.6	11.8	15.1
85°	0.0	0.0	0.0	0.0	2.5	5.0	3.4	1.7	0.8	0.8	2.5
87.5°	0.0	0.0	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2167.9	2167.9	2167.9	2167.9	2167.9	2167.9	2167.9	2167.9	2167.9	2167.9
2.5°	1877.8	1937.5	2001.4	2025.8	2101.5	2158.7	2197.4	2280.6	2293.2	2294.1
5°	1508.7	1538.9	1648.3	1699.6	1812.3	1899.7	1993.0	2127.6	2217.5	2224.3
7.5°	1072.2	1156.3	1202.5	1336.3	1475.0	1612.1	1750.9	1907.2	2011.5	2014.0
10°	862.8	917.4	999.9	1099.9	1216.8	1356.4	1541.5	1723.1	1829.1	1855.1
12.5°	694.6	790.5	884.6	988.1	1077.2	1182.4	1381.7	1623.9	1711.4	1763.5
15°	534.9	622.3	733.3	854.4	955.3	1095.7	1322.8	1599.5	1746.7	1764.3
17.5°	394.4	472.6	575.2	689.5	840.9	1040.2	1332.9	1723.1	1861.8	1891.2
20°	283.4	328.8	409.6	542.4	734.9	975.5	1343.0	1848.4	2059.4	2109.9
22.5°	224.5	243.0	296.0	413.8	616.5	907.4	1414.5	2088.0	2331.1	2404.3
25°	195.1	205.2	230.4	326.3	541.6	900.6	1528.9	2375.7	2692.7	2745.7
27.5°	188.4	190.1	211.9	299.4	501.2	856.1	1572.6	2580.0	2918.1	2971.9
30°	198.5	225.4	227.1	253.1	426.4	767.7	1595.3	2777.7	3108.9	3148.5
32.5°	171.6	163.2	169.0	196.0	375.1	716.4	1638.2	2950.1	3326.7	3354.5
35°	119.4	125.3	138.8	169.9	328.0	662.6	1649.1	3140.0	3533.6	3562.2
37.5°	110.2	113.5	124.5	144.7	288.5	632.3	1634.0	3278.8	3748.1	3787.6
40°	102.6	106.8	112.7	131.2	259.0	598.8	1613.0	3404.1	3879.3	3976.8
42.5°	96.7	100.1	105.1	125.3	233.8	565.2	1583.5	3580.7	3997.0	4082.0
45°	90.0	95.0	100.9	121.9	219.5	542.4	1561.7	3569.8	4065.1	4110.6
47.5°	83.3	91.7	98.4	113.5	215.3	531.5	1570.9	3528.6	4009.6	3978.5
50°	76.5	87.5	99.2	94.2	205.2	509.6	1581.8	3584.9	3877.6	3871.7
52.5°	70.6	83.3	92.5	77.4	182.5	488.6	1687.8	3658.9	3970.9	3892.7
55°	62.2	74.8	74.0	62.2	148.0	472.6	1771.1	3660.6	3907.9	3937.3
57.5°	56.3	66.4	58.0	52.1	109.3	395.3	1635.7	3069.5	3345.2	3397.4
60°	52.1	64.8	43.7	41.2	71.5	285.1	1427.9	2377.3	2659.1	2757.5
62.5°	47.9	61.4	34.5	33.6	49.6	202.7	1174.0	1989.6	2291.6	2425.3
65°	42.0	43.7	27.8	26.1	35.3	109.3	714.8	1369.9	1713.0	1762.7
67.5°	34.5	33.6	22.7	21.0	23.5	53.0	315.4	686.2	993.1	1076.4
70°	27.8	27.8	19.3	16.8	16.8	24.4	82.4	273.3	449.1	497.0
72.5°	20.2	21.0	15.1	13.5	12.6	11.8	13.5	54.7	117.7	150.5
75°	17.7	18.5	15.1	11.8	9.3	7.6	5.9	5.0	6.7	10.9
77.5°	19.3	19.3	16.0	10.9	8.4	5.9	3.4	1.7	1.7	0.8
80°	24.4	25.2	21.0	14.3	10.1	6.7	4.2	1.7	0.8	0.8
82.5°	26.1	28.6	23.5	17.7	12.6	7.6	4.2	0.8	0.0	0.0
85°	6.7	10.9	18.5	16.0	12.6	7.6	4.2	0.8	0.0	0.0
87.5°	0.0	0.8	2.5	2.5	3.4	3.4	2.5	0.8	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

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