

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: P526831

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526831
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-SA1D-740-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS 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: 4327 lumens
Efficiency: N/A
Efficacy: 66.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

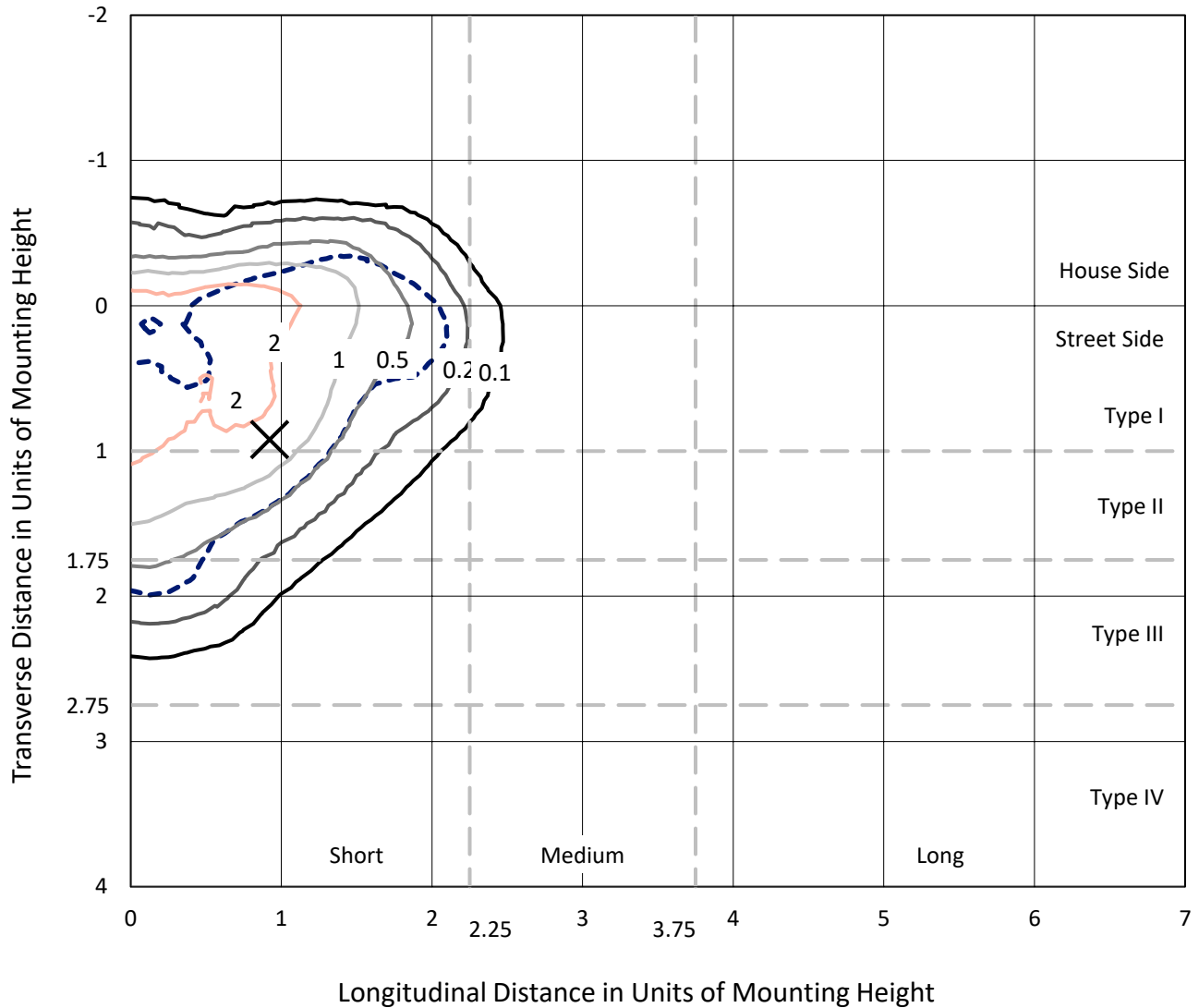
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

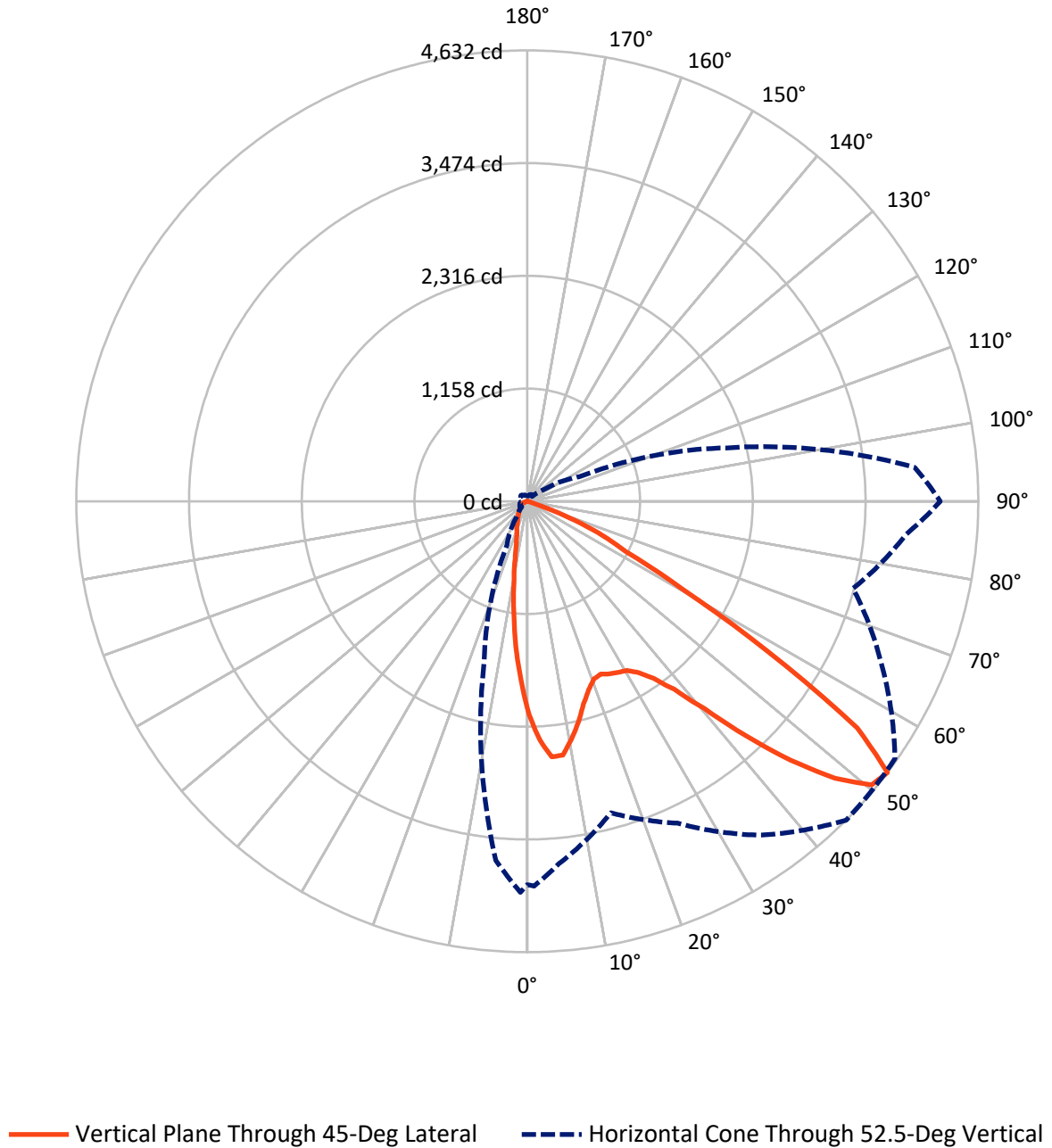
✕ Max cd
 - - - 1/2 Max cd



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



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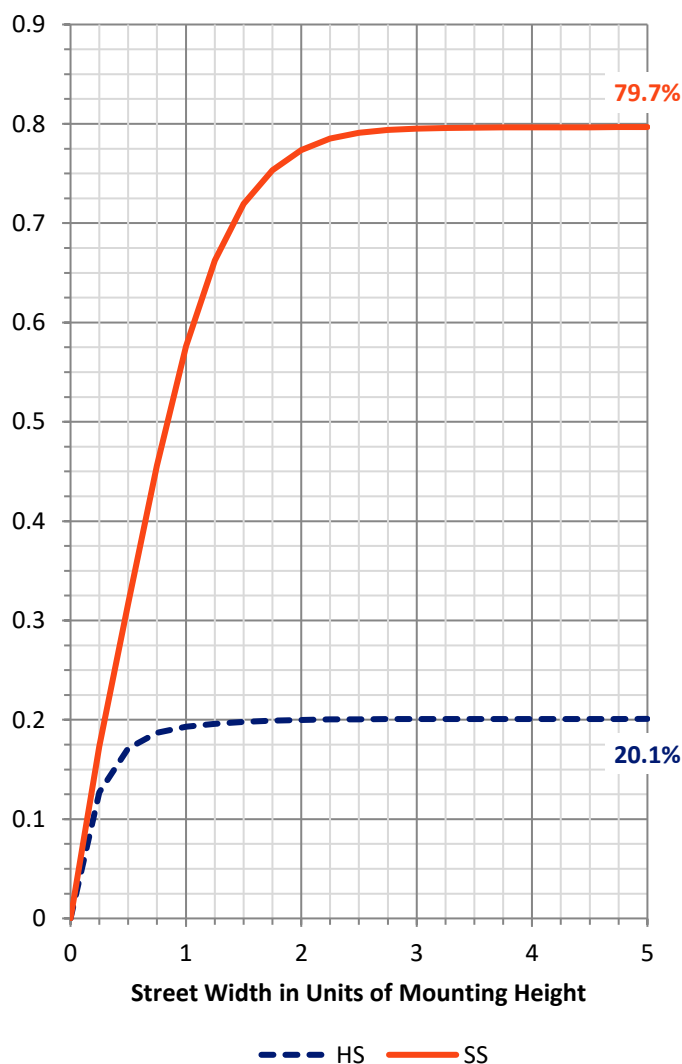
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	878.2	0.0	878.2
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	3448.8	0.0	3448.8
	% Fixture	79.7	0.0	79.7
Total	Lumens	4327.0	0.0	4327.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.0	3.7
10°-20°	315.7	7.3
20°-30°	480.4	11.1
30°-40°	718.0	16.6
40°-50°	1022.6	23.6
50°-60°	1099.2	25.4
60°-70°	487.1	11.3
70°-80°	39.4	0.9
80°-90°	4.6	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°	4327.0	100.0
0°-180°	4327.0	100.0

Coefficient of Utilization

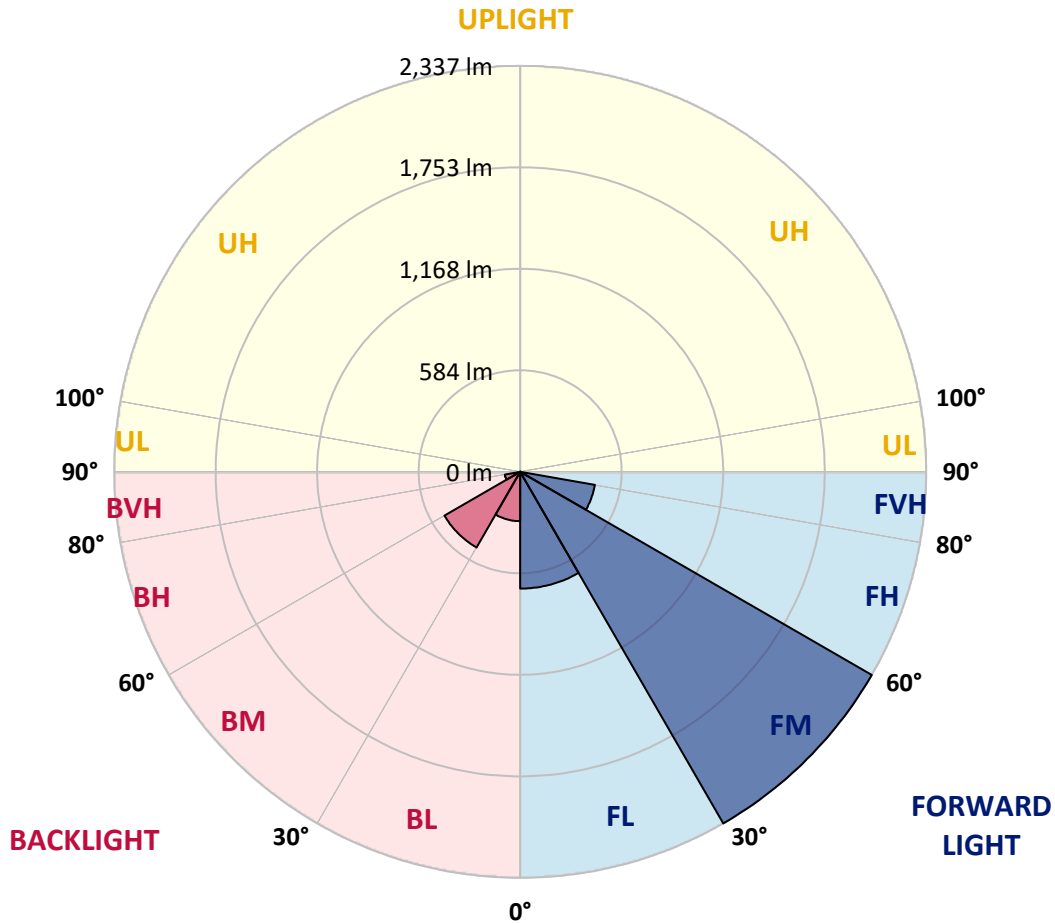


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	672.1	15.5			
FM (30°-60°)	2336.7	54.0			
FH (60°-80°)	436.6	10.1			G0/660
FVH (80°-90°)	3.4	0.1			G0/10
BL (0°-30°)	284.0	6.6	B1/500		
BM (30°-60°)	503.1	11.6	B1/1000		
BH (60°-80°)	89.9	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°	2194.0	2194.0	2194.0	2194.0	2194.0	2194.0	2194.0	2194.0	2194.0	2194.0	2194.0
2.5°	2321.6	2328.5	2365.9	2412.7	2437.4	2493.6	2454.4	2464.6	2443.3	2368.5	2309.7
5°	2251.0	2250.2	2297.8	2413.6	2523.3	2634.8	2638.2	2578.7	2474.0	2359.1	2194.8
7.5°	2038.2	2071.4	2120.8	2305.5	2508.9	2592.3	2632.3	2562.5	2401.6	2237.4	2059.5
10°	1877.4	1894.4	1977.8	2200.8	2349.7	2461.2	2485.9	2445.9	2322.5	2117.4	1918.3
12.5°	1784.6	1793.1	1891.0	2078.2	2235.7	2318.2	2330.2	2348.9	2260.4	2068.0	1828.9
15°	1785.5	1792.3	1924.2	2080.8	2142.9	2120.8	2159.9	2159.1	2197.4	2058.7	1903.8
17.5°	1914.0	1921.7	2040.8	2118.2	2091.0	2039.1	2036.5	2075.7	2156.5	2175.3	2017.0
20°	2135.3	2153.1	2240.8	2236.5	2083.4	1978.7	1949.7	1979.5	2167.6	2274.0	2245.1
22.5°	2433.1	2457.8	2519.1	2401.6	2118.2	1937.8	1928.5	1986.3	2240.8	2494.4	2503.8
25°	2778.7	2820.4	2850.1	2699.5	2242.5	2008.5	1964.2	2063.8	2339.5	2733.6	2833.1
27.5°	3007.6	3051.0	3044.2	2828.9	2325.9	2027.2	1989.7	2082.5	2425.5	2790.6	3005.0
30°	3186.3	3212.7	3260.3	2898.7	2409.3	2080.0	2016.1	2161.7	2453.6	2889.3	3212.7
32.5°	3394.8	3412.7	3416.1	3022.1	2537.8	2146.3	2097.8	2260.4	2577.8	2983.8	3396.5
35°	3605.0	3631.4	3576.1	3174.4	2617.0	2269.7	2234.0	2431.4	2677.4	3081.6	3599.1
37.5°	3833.1	3846.7	3719.1	3237.4	2730.1	2470.6	2451.0	2616.1	2850.1	3258.6	3823.7
40°	4024.6	4037.4	3871.4	3314.8	2849.3	2751.4	2801.6	2968.4	3085.0	3373.5	3936.1
42.5°	4131.0	4160.8	3922.5	3272.3	3088.4	3069.7	3292.7	3351.4	3357.4	3405.9	4036.5
45°	4159.9	4146.3	3838.2	3307.2	3297.8	3593.1	3795.7	3873.1	3628.0	3465.4	4062.0
47.5°	4026.3	4044.2	3714.0	3276.5	3572.7	3989.7	4251.8	4395.6	3829.7	3413.5	3999.1
50°	3918.2	3895.2	3674.0	3254.4	3646.7	4176.9	4581.2	4613.5	4015.2	3477.4	3930.1
52.5°	3939.5	3953.9	3737.8	3313.1	3648.4	4188.0	4632.2	4610.1	4021.2	3462.9	3905.4
55°	3984.6	3920.8	3710.5	3183.8	3404.2	3879.1	4111.4	4077.3	3711.4	3308.9	3845.0
57.5°	3438.2	3536.9	3411.8	2842.5	2794.0	2922.5	2918.2	3022.9	2768.4	2847.6	3500.3
60°	2790.6	2807.6	2854.4	2431.4	1933.6	1889.3	1828.0	1761.7	1862.9	2434.8	3183.8
62.5°	2454.4	2434.0	2600.8	2211.9	1365.1	1143.0	1132.7	1173.6	1437.4	2322.5	2986.3
65°	1783.8	1809.3	1930.2	1716.6	1024.7	872.3	857.0	977.8	1163.4	1861.2	2279.1
67.5°	1089.3	1138.7	1149.8	1058.7	695.3	552.3	530.2	640.0	840.0	1204.2	1336.1
70°	503.0	562.5	618.7	577.9	402.5	227.2	214.5	268.9	423.8	692.7	708.9
72.5°	152.3	153.2	214.5	223.8	130.2	51.1	45.1	59.6	143.8	228.9	240.8
75°	11.1	11.9	28.9	33.2	24.7	12.8	13.6	16.2	30.6	51.1	38.3
77.5°	0.9	0.9	0.9	4.3	7.7	8.5	11.1	12.8	16.2	18.7	17.0
80°	0.9	0.0	0.9	3.4	6.0	8.5	10.2	11.9	12.8	14.5	12.8
82.5°	0.0	0.0	0.0	2.6	6.0	8.5	9.4	12.8	14.5	17.0	14.5
85°	0.0	0.0	0.0	2.6	6.0	9.4	8.5	4.3	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°	2194.0	2194.0	2194.0	2194.0	2194.0	2194.0	2194.0	2194.0	2194.0	2194.0	2194.0
2.5°	2319.9	2286.8	2211.0	2172.7	2082.5	2069.7	1981.2	1966.8	1937.0	1920.8	1881.7
5°	2122.5	2082.5	1959.1	1855.3	1734.4	1650.2	1585.5	1526.8	1492.7	1461.2	1475.7
7.5°	1961.7	1845.1	1708.0	1534.4	1394.9	1304.6	1205.9	1125.1	1077.4	1045.1	1052.7
10°	1793.1	1717.4	1526.8	1331.9	1163.4	1099.5	1022.1	960.0	892.7	834.9	807.6
12.5°	1740.4	1628.0	1388.9	1190.6	1063.0	1000.8	912.3	840.8	754.9	684.2	659.6
15°	1749.7	1641.7	1351.5	1139.5	988.9	881.7	776.2	687.6	593.2	543.8	518.3
17.5°	1902.1	1714.9	1376.1	1085.9	885.9	737.0	606.8	494.5	423.8	372.8	361.7
20°	2089.3	1873.1	1428.9	1046.8	801.7	586.4	443.4	346.4	287.7	279.1	276.6
22.5°	2363.3	2131.9	1542.1	1020.4	698.7	457.0	303.8	251.9	235.7	234.0	234.9
25°	2746.3	2456.1	1665.5	998.3	621.3	352.3	248.5	213.6	208.5	206.0	210.2
27.5°	2912.3	2651.9	1731.0	950.6	550.6	317.4	245.1	211.9	197.4	193.2	195.7
30°	3117.4	2782.1	1834.0	868.9	446.8	261.3	228.9	230.6	223.8	202.5	195.7
32.5°	3389.7	2944.6	1885.9	811.0	399.1	216.2	167.7	154.0	171.9	175.3	181.3
35°	3564.2	3109.7	1912.3	777.0	374.5	184.7	142.1	129.4	125.1	126.0	129.4
37.5°	3888.4	3332.7	1945.5	741.3	355.7	160.8	128.5	116.6	110.6	110.6	114.0
40°	4082.5	3509.7	1990.6	721.7	337.0	146.4	116.6	106.4	101.3	101.3	103.0
42.5°	4131.0	3597.4	1975.3	714.9	315.7	143.0	106.4	98.7	92.8	91.9	91.1
45°	4217.8	3731.0	1977.8	707.2	293.6	130.2	100.4	91.9	83.4	82.6	81.7
47.5°	4313.1	3827.1	1982.9	677.4	272.3	108.9	104.7	85.1	74.9	73.2	73.2
50°	4231.4	3903.7	2027.2	647.6	245.1	88.5	103.0	80.0	66.4	63.8	64.7
52.5°	4241.6	3993.9	2120.8	605.9	211.1	70.6	83.4	75.7	60.4	56.2	57.0
55°	4078.2	3898.6	2133.6	561.7	165.1	54.5	63.8	66.4	51.1	49.4	49.4
57.5°	3510.6	3301.2	1882.5	455.3	108.9	45.1	46.0	57.9	44.3	42.6	43.4
60°	3004.2	2650.1	1514.9	300.4	68.1	35.7	33.2	58.7	39.1	38.3	40.9
62.5°	2738.7	2177.8	1148.9	186.4	46.8	27.2	23.0	47.7	34.0	34.0	37.4
65°	1978.7	1462.9	668.1	97.9	33.2	21.3	17.0	27.2	28.1	28.9	30.6
67.5°	1225.5	738.7	281.7	47.7	22.1	14.5	11.1	17.0	18.7	18.7	20.4
70°	605.1	294.5	93.6	27.2	17.0	11.9	7.7	9.4	9.4	8.5	9.4
72.5°	187.2	88.5	23.8	17.0	11.9	7.7	4.3	3.4	1.7	0.0	0.9
75°	21.3	17.0	15.3	11.9	7.7	3.4	0.9	0.0	0.0	0.0	0.0
77.5°	12.8	14.5	14.5	11.9	7.7	2.6	0.0	0.0	0.0	0.0	0.0
80°	10.2	11.1	11.9	11.1	6.8	3.4	0.0	0.0	0.0	0.0	0.0
82.5°	12.8	14.5	16.2	14.5	9.4	4.3	1.7	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	2.6	0.9	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°	2194.0	2194.0	2194.0	2194.0	2194.0	2194.0	2194.0	2194.0	2194.0	2194.0	2194.0
2.5°	1865.5	1846.8	1873.1	1834.0	1833.1	1834.0	1822.9	1812.7	1828.9	1872.3	1876.6
5°	1423.8	1463.8	1476.6	1518.3	1495.3	1461.2	1468.1	1445.1	1501.2	1525.9	1506.3
7.5°	1036.6	1034.0	1120.0	1125.1	1136.1	1137.0	1135.3	1090.2	1044.2	1054.4	1085.1
10°	804.2	760.8	802.5	798.3	825.5	817.9	828.9	780.4	796.6	796.6	816.2
12.5°	655.3	609.3	601.7	590.6	601.7	605.9	610.2	600.8	628.1	640.8	654.5
15°	500.4	474.9	468.1	446.8	450.2	462.1	472.3	476.6	468.1	487.6	489.4
17.5°	363.4	362.5	366.8	365.9	362.5	360.0	359.1	348.1	344.7	346.4	353.2
20°	275.7	282.5	297.0	311.5	319.1	309.8	297.0	278.3	270.6	272.3	273.2
22.5°	235.7	246.0	265.5	281.7	289.4	272.3	249.4	233.2	229.8	228.9	228.1
25°	213.6	225.5	240.0	245.1	244.2	234.0	217.0	210.2	208.5	206.8	199.1
27.5°	201.7	206.0	208.5	214.5	217.0	210.2	206.0	195.7	194.0	194.0	188.9
30°	194.9	192.3	195.7	191.5	194.9	189.8	190.6	190.6	186.4	188.1	188.1
32.5°	181.3	182.1	182.1	173.6	176.2	170.2	176.2	181.3	182.1	183.0	189.8
35°	132.8	148.1	155.7	155.7	158.3	154.0	153.2	147.2	139.6	131.9	128.5
37.5°	116.6	122.6	132.8	138.7	143.0	139.6	131.9	122.6	118.3	114.9	111.5
40°	103.8	108.9	115.7	122.6	131.1	126.8	114.9	110.6	105.5	105.5	102.1
42.5°	93.6	96.2	100.4	110.6	120.0	111.5	103.0	99.6	97.0	96.2	95.3
45°	84.3	85.1	89.4	97.9	108.9	100.4	91.9	87.7	88.5	89.4	88.5
47.5°	75.7	77.4	80.0	90.2	97.0	92.8	83.4	80.8	80.8	80.8	81.7
50°	65.5	69.8	74.9	83.4	88.5	86.0	78.3	74.9	73.2	73.2	74.0
52.5°	58.7	62.1	68.9	79.1	86.0	81.7	74.0	68.9	65.5	64.7	66.4
55°	51.1	57.0	68.1	75.7	85.1	80.8	72.3	66.4	60.4	59.6	59.6
57.5°	46.0	55.3	65.5	74.9	82.6	79.1	72.3	64.7	57.0	56.2	56.2
60°	43.4	53.6	63.8	72.3	82.6	77.4	71.5	63.0	54.5	54.5	53.6
62.5°	40.9	50.2	60.4	68.9	79.1	74.9	68.9	60.4	51.9	51.9	50.2
65°	34.0	43.4	50.2	57.9	68.9	64.7	58.7	52.8	46.0	44.3	45.1
67.5°	23.8	29.8	36.6	44.3	51.1	49.4	46.8	42.6	36.6	35.7	34.9
70°	11.9	16.2	22.1	29.8	35.7	34.0	32.3	28.9	25.5	24.7	24.7
72.5°	1.7	5.1	9.4	13.6	18.7	19.6	18.7	17.9	17.0	16.2	17.0
75°	0.0	0.0	0.0	3.4	7.7	9.4	11.1	12.8	12.8	11.1	13.6
77.5°	0.0	0.0	0.0	0.0	0.9	4.3	8.5	11.1	13.6	11.9	16.2
80°	0.0	0.0	0.0	0.0	0.9	5.1	8.5	11.9	13.6	11.9	17.0
82.5°	0.0	0.0	0.0	0.0	0.9	6.0	8.5	11.1	12.8	11.9	15.3
85°	0.0	0.0	0.0	0.0	2.6	5.1	3.4	1.7	0.9	0.9	2.6
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°	2194.0	2194.0	2194.0	2194.0	2194.0	2194.0	2194.0	2194.0	2194.0	2194.0
2.5°	1900.4	1960.8	2025.5	2050.2	2126.8	2184.6	2223.8	2308.0	2320.8	2321.6
5°	1526.8	1557.4	1668.0	1720.0	1834.0	1922.5	2017.0	2153.1	2244.2	2251.0
7.5°	1085.1	1170.2	1217.0	1352.3	1492.7	1631.5	1771.9	1930.2	2035.7	2038.2
10°	873.2	928.5	1011.9	1113.2	1231.5	1372.7	1560.0	1743.8	1851.0	1877.4
12.5°	703.0	800.0	895.3	1000.0	1090.2	1196.6	1398.3	1643.4	1731.9	1784.6
15°	541.3	629.8	742.1	864.7	966.8	1108.9	1338.7	1618.7	1767.6	1785.5
17.5°	399.1	478.3	582.1	697.9	851.0	1052.7	1348.9	1743.8	1884.2	1914.0
20°	286.8	332.8	414.5	548.9	743.8	987.2	1359.1	1870.6	2084.2	2135.3
22.5°	227.2	246.0	299.6	418.7	623.8	918.3	1431.5	2113.1	2359.1	2433.1
25°	197.4	207.7	233.2	330.2	548.1	911.5	1547.2	2404.2	2725.0	2778.7
27.5°	190.6	192.3	214.5	303.0	507.2	866.4	1591.5	2611.0	2953.1	3007.6
30°	200.8	228.1	229.8	256.2	431.5	777.0	1614.4	2811.0	3146.3	3186.3
32.5°	173.6	165.1	171.1	198.3	379.6	725.1	1657.8	2985.5	3366.7	3394.8
35°	120.8	126.8	140.4	171.9	331.9	670.6	1668.9	3177.8	3576.1	3605.0
37.5°	111.5	114.9	126.0	146.4	291.9	640.0	1653.6	3318.2	3793.1	3833.1
40°	103.8	108.1	114.0	132.8	262.1	605.9	1632.3	3445.0	3925.9	4024.6
42.5°	97.9	101.3	106.4	126.8	236.6	571.9	1602.5	3623.7	4045.0	4131.0
45°	91.1	96.2	102.1	123.4	222.1	548.9	1580.4	3612.7	4113.9	4159.9
47.5°	84.3	92.8	99.6	114.9	217.9	537.9	1589.7	3571.0	4057.8	4026.3
50°	77.4	88.5	100.4	95.3	207.7	515.7	1600.8	3628.0	3924.2	3918.2
52.5°	71.5	84.3	93.6	78.3	184.7	494.5	1708.0	3702.9	4018.6	3939.5
55°	63.0	75.7	74.9	63.0	149.8	478.3	1792.3	3704.6	3954.8	3984.6
57.5°	57.0	67.2	58.7	52.8	110.6	400.0	1655.3	3106.3	3385.5	3438.2
60°	52.8	65.5	44.3	41.7	72.3	288.5	1445.1	2405.9	2691.0	2790.6
62.5°	48.5	62.1	34.9	34.0	50.2	205.1	1188.1	2013.6	2319.1	2454.4
65°	42.6	44.3	28.1	26.4	35.7	110.6	723.4	1386.3	1733.6	1783.8
67.5°	34.9	34.0	23.0	21.3	23.8	53.6	319.1	694.5	1005.1	1089.3
70°	28.1	28.1	19.6	17.0	17.0	24.7	83.4	276.6	454.5	503.0
72.5°	20.4	21.3	15.3	13.6	12.8	11.9	13.6	55.3	119.1	152.3
75°	17.9	18.7	15.3	11.9	9.4	7.7	6.0	5.1	6.8	11.1
77.5°	19.6	19.6	16.2	11.1	8.5	6.0	3.4	1.7	1.7	0.9
80°	24.7	25.5	21.3	14.5	10.2	6.8	4.3	1.7	0.9	0.9
82.5°	26.4	28.9	23.8	17.9	12.8	7.7	4.3	0.9	0.0	0.0
85°	6.8	11.1	18.7	16.2	12.8	7.7	4.3	0.9	0.0	0.0
87.5°	0.0	0.9	2.6	2.6	3.4	3.4	2.6	0.9	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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