

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: P526779

Luminaire Tested: **GALN-SA1D-730-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526779
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-730-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 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: 3941 lumens
Efficiency: N/A
Efficacy: 60.6 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

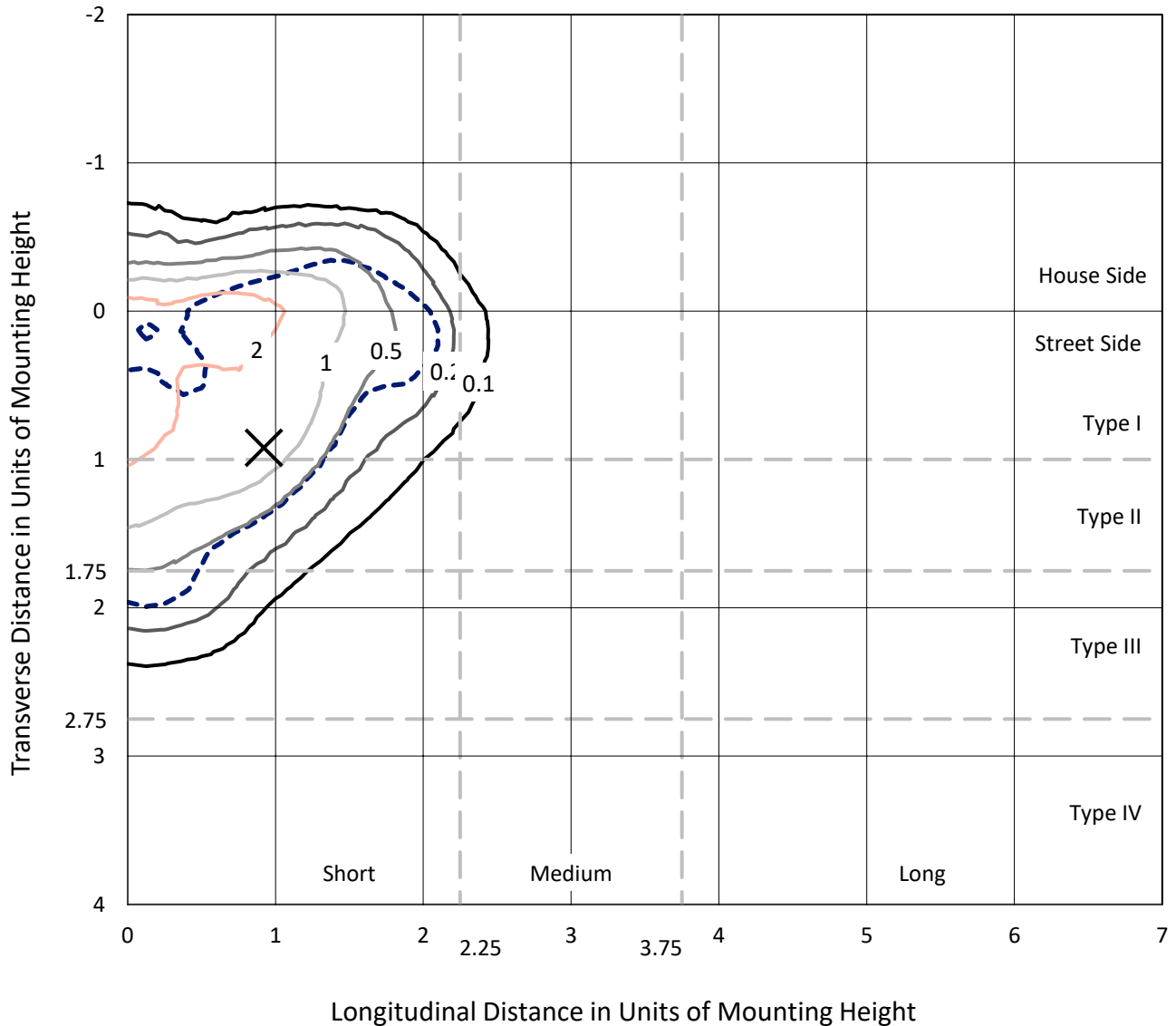
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

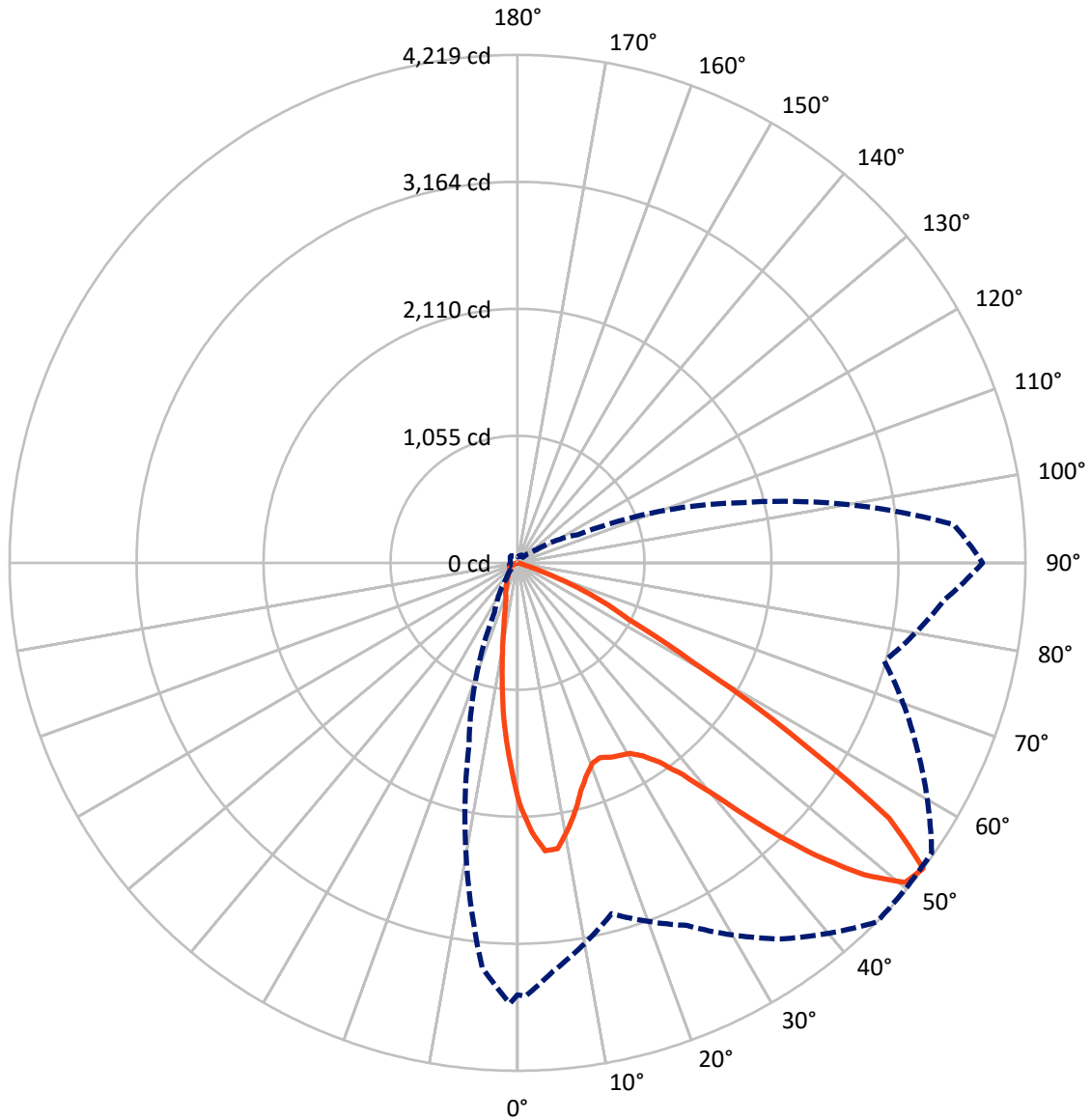
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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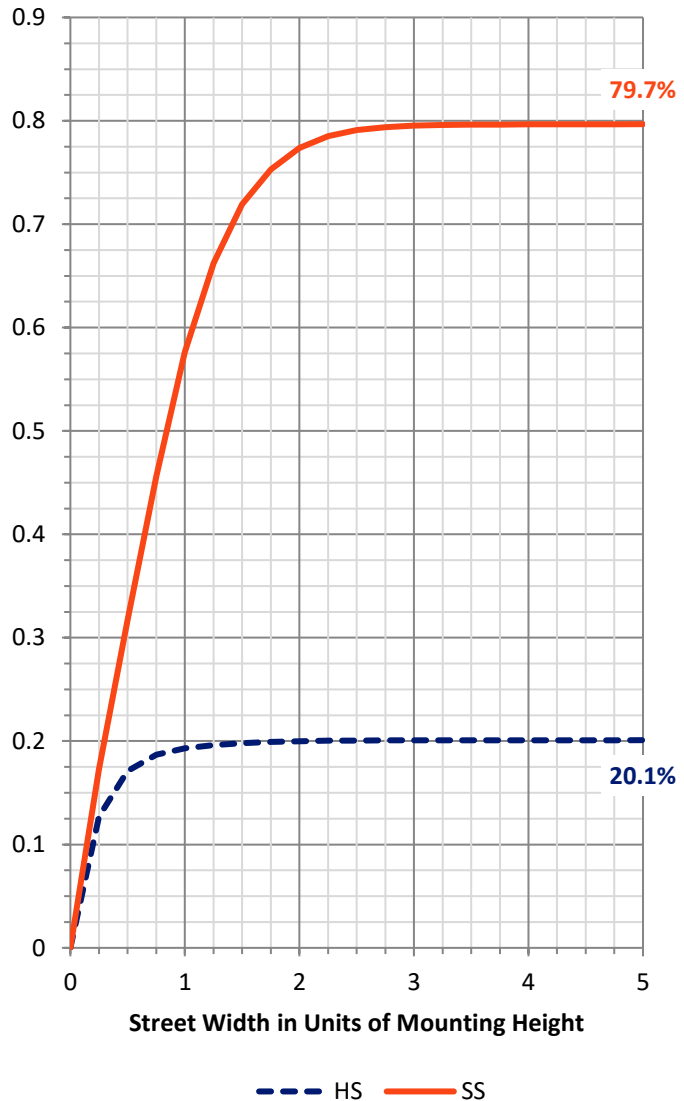
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	799.8	0.0	799.8
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	3141.2	0.0	3141.2
	% Fixture	79.7	0.0	79.7
Total	Lumens	3941.0	0.0	3941.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.7	3.7
10°-20°	287.5	7.3
20°-30°	437.6	11.1
30°-40°	654.0	16.6
40°-50°	931.3	23.6
50°-60°	1001.2	25.4
60°-70°	443.6	11.3
70°-80°	35.9	0.9
80°-90°	4.2	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°	3941.0	100.0
0°-180°	3941.0	100.0

Coefficient of Utilization

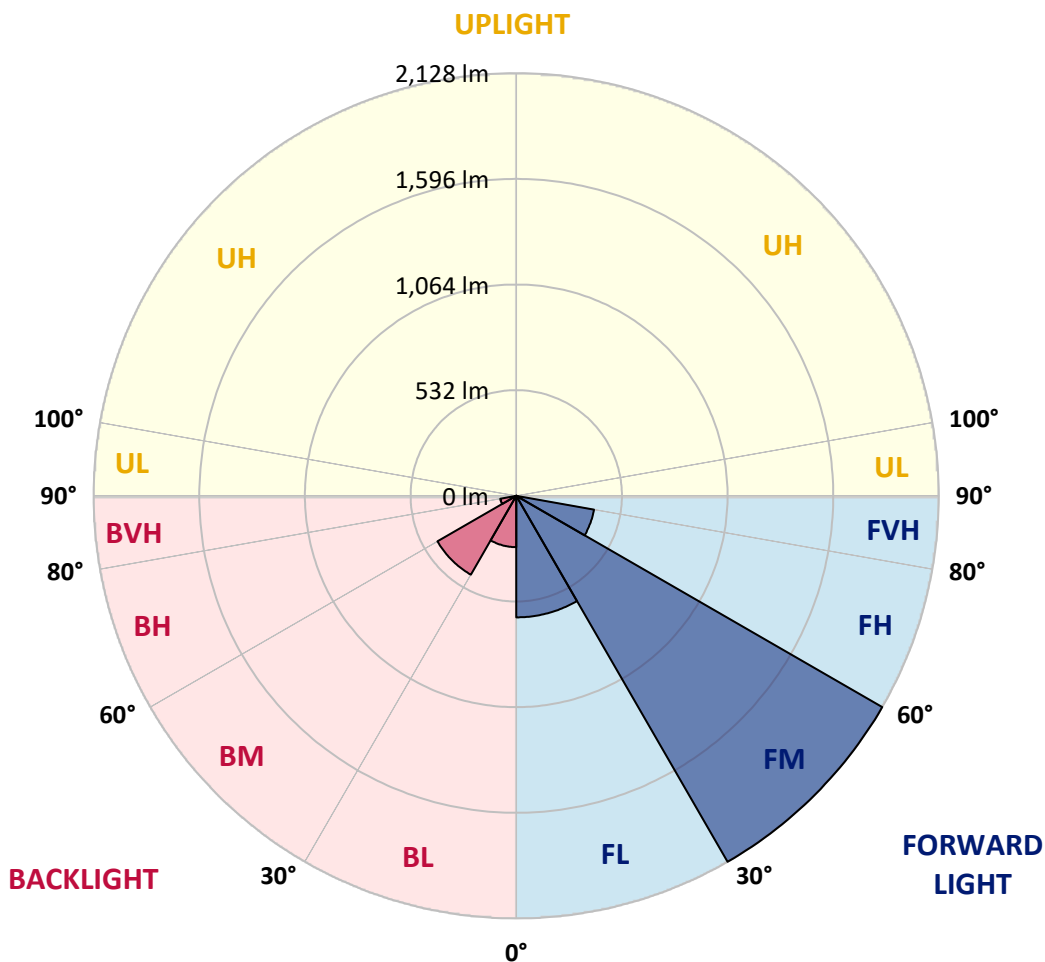


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	612.1	15.5			
FM (30°-60°)	2128.3	54.0			
FH (60°-80°)	397.7	10.1			G0/660
FVH (80°-90°)	3.1	0.1			G0/10
BL (0°-30°)	258.7	6.6	B1/500		
BM (30°-60°)	458.2	11.6	B1/1000		
BH (60°-80°)	81.8	2.1	B0/110		G0/110
BVH (80°-90°)	1.1	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°	1998.3	1998.3	1998.3	1998.3	1998.3	1998.3	1998.3	1998.3	1998.3	1998.3	1998.3
2.5°	2114.5	2120.7	2154.8	2197.5	2220.0	2271.1	2235.5	2244.8	2225.4	2157.2	2103.7
5°	2050.2	2049.4	2092.8	2198.3	2298.2	2399.8	2402.9	2348.6	2253.3	2148.6	1999.0
7.5°	1856.4	1886.7	1931.6	2099.8	2285.1	2361.0	2397.5	2333.9	2187.4	2037.8	1875.8
10°	1709.9	1725.4	1801.4	2004.5	2140.1	2241.7	2264.1	2227.7	2115.3	1928.5	1747.1
12.5°	1625.4	1633.2	1722.3	1892.9	2036.3	2111.4	2122.3	2139.3	2058.7	1883.6	1665.7
15°	1626.2	1632.4	1752.6	1895.2	1951.8	1931.6	1967.3	1966.5	2001.4	1875.0	1734.0
17.5°	1743.3	1750.2	1858.7	1929.3	1904.5	1857.2	1854.9	1890.5	1964.2	1981.2	1837.0
20°	1944.8	1961.1	2040.9	2037.0	1897.5	1802.2	1775.8	1802.9	1974.2	2071.1	2044.8
22.5°	2216.1	2238.6	2294.4	2187.4	1929.3	1765.0	1756.4	1809.1	2040.9	2271.9	2280.4
25°	2530.8	2568.8	2595.9	2458.7	2042.5	1829.3	1789.0	1879.7	2130.8	2489.7	2580.4
27.5°	2739.3	2778.8	2772.6	2576.5	2118.4	1846.3	1812.2	1896.7	2209.1	2541.6	2737.0
30°	2902.1	2926.1	2969.5	2640.1	2194.4	1894.4	1836.3	1968.8	2234.7	2631.5	2926.1
32.5°	3092.0	3108.2	3111.3	2752.5	2311.4	1954.9	1910.7	2058.7	2347.9	2717.6	3093.5
35°	3283.4	3307.5	3257.1	2891.2	2383.5	2067.3	2034.7	2214.5	2438.5	2806.7	3278.0
37.5°	3491.2	3503.6	3387.3	2948.6	2486.6	2250.2	2232.4	2382.7	2595.9	2968.0	3482.6
40°	3665.6	3677.2	3526.0	3019.1	2595.1	2506.0	2551.7	2703.6	2809.8	3072.6	3584.9
42.5°	3762.5	3789.6	3572.5	2980.4	2812.9	2795.9	2999.0	3052.4	3057.9	3102.0	3676.4
45°	3788.8	3776.4	3495.8	3012.1	3003.6	3272.6	3457.1	3527.6	3304.4	3156.3	3699.7
47.5°	3667.1	3683.4	3382.6	2984.2	3254.0	3633.8	3872.5	4003.5	3488.1	3109.0	3642.3
50°	3568.7	3547.7	3346.2	2964.1	3321.4	3804.3	4172.5	4201.9	3657.0	3167.2	3579.5
52.5°	3588.0	3601.2	3404.3	3017.6	3323.0	3814.4	4219.0	4198.8	3662.5	3154.0	3557.0
55°	3629.1	3571.0	3379.5	2899.7	3100.5	3533.0	3744.6	3713.6	3380.3	3013.7	3502.0
57.5°	3131.5	3221.4	3107.5	2588.9	2544.7	2661.8	2657.9	2753.2	2521.5	2593.6	3188.1
60°	2541.6	2557.1	2599.8	2214.5	1761.1	1720.8	1665.0	1604.5	1696.7	2217.6	2899.7
62.5°	2235.5	2216.9	2368.8	2014.5	1243.3	1041.0	1031.7	1068.9	1309.2	2115.3	2719.9
65°	1624.7	1647.9	1758.0	1563.4	933.2	794.5	780.6	890.6	1059.6	1695.2	2075.8
67.5°	992.2	1037.1	1047.2	964.3	633.3	503.1	482.9	582.9	765.0	1096.8	1216.9
70°	458.1	512.4	563.5	526.3	366.6	207.0	195.3	244.9	386.0	631.0	645.7
72.5°	138.7	139.5	195.3	203.9	118.6	46.5	41.1	54.3	131.0	208.5	219.4
75°	10.1	10.9	26.4	30.2	22.5	11.6	12.4	14.7	27.9	46.5	34.9
77.5°	0.8	0.8	0.8	3.9	7.0	7.8	10.1	11.6	14.7	17.1	15.5
80°	0.8	0.0	0.8	3.1	5.4	7.8	9.3	10.9	11.6	13.2	11.6
82.5°	0.0	0.0	0.0	2.3	5.4	7.8	8.5	11.6	13.2	15.5	13.2
85°	0.0	0.0	0.0	2.3	5.4	8.5	7.8	3.9	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°	1998.3	1998.3	1998.3	1998.3	1998.3	1998.3	1998.3	1998.3	1998.3	1998.3	1998.3
2.5°	2113.0	2082.8	2013.8	1978.9	1896.7	1885.1	1804.5	1791.3	1764.2	1749.5	1713.8
5°	1933.2	1896.7	1784.3	1689.8	1579.7	1503.0	1444.1	1390.6	1359.6	1330.9	1344.1
7.5°	1786.7	1680.5	1555.7	1397.5	1270.4	1188.3	1098.4	1024.7	981.3	951.9	958.8
10°	1633.2	1564.2	1390.6	1213.1	1059.6	1001.5	930.9	874.3	813.1	760.4	735.6
12.5°	1585.1	1482.8	1265.0	1084.4	968.1	911.5	830.9	765.8	687.5	623.2	600.7
15°	1593.7	1495.2	1230.9	1037.9	900.7	803.0	706.9	626.3	540.3	495.3	472.1
17.5°	1732.4	1561.9	1253.4	989.1	806.9	671.3	552.7	450.3	386.0	339.5	329.4
20°	1902.9	1706.0	1301.4	953.4	730.2	534.1	403.8	315.5	262.0	254.2	251.9
22.5°	2152.5	1941.7	1404.5	929.4	636.4	416.2	276.7	229.4	214.7	213.2	213.9
25°	2501.3	2237.0	1516.9	909.2	565.8	320.9	226.3	194.6	189.9	187.6	191.5
27.5°	2652.5	2415.3	1576.6	865.8	501.5	289.1	223.2	193.0	179.8	176.0	178.3
30°	2839.3	2533.9	1670.4	791.4	406.9	238.0	208.5	210.1	203.9	184.5	178.3
32.5°	3087.3	2681.9	1717.7	738.7	363.5	196.9	152.7	140.3	156.6	159.7	165.1
35°	3246.2	2832.3	1741.7	707.7	341.1	168.2	129.4	117.8	113.9	114.7	117.8
37.5°	3541.5	3035.4	1771.9	675.1	324.0	146.5	117.0	106.2	100.8	100.8	103.9
40°	3718.3	3196.6	1813.0	657.3	306.9	133.3	106.2	96.9	92.2	92.2	93.8
42.5°	3762.5	3276.4	1799.1	651.1	287.6	130.2	96.9	89.9	84.5	83.7	82.9
45°	3841.5	3398.1	1801.4	644.1	267.4	118.6	91.5	83.7	76.0	75.2	74.4
47.5°	3928.3	3485.7	1806.0	617.0	248.0	99.2	95.3	77.5	68.2	66.7	66.7
50°	3853.9	3555.5	1846.3	589.9	223.2	80.6	93.8	72.9	60.5	58.1	58.9
52.5°	3863.2	3637.7	1931.6	551.9	192.2	64.3	76.0	69.0	55.0	51.2	51.9
55°	3714.4	3550.8	1943.2	511.6	150.4	49.6	58.1	60.5	46.5	45.0	45.0
57.5°	3197.4	3006.7	1714.6	414.7	99.2	41.1	41.9	52.7	40.3	38.8	39.5
60°	2736.2	2413.7	1379.7	273.6	62.0	32.6	30.2	53.5	35.7	34.9	37.2
62.5°	2494.3	1983.5	1046.4	169.8	42.6	24.8	20.9	43.4	31.0	31.0	34.1
65°	1802.2	1332.4	608.5	89.1	30.2	19.4	15.5	24.8	25.6	26.4	27.9
67.5°	1116.2	672.8	256.6	43.4	20.2	13.2	10.1	15.5	17.1	17.1	18.6
70°	551.1	268.2	85.3	24.8	15.5	10.9	7.0	8.5	8.5	7.8	8.5
72.5°	170.5	80.6	21.7	15.5	10.9	7.0	3.9	3.1	1.6	0.0	0.8
75°	19.4	15.5	14.0	10.9	7.0	3.1	0.8	0.0	0.0	0.0	0.0
77.5°	11.6	13.2	13.2	10.9	7.0	2.3	0.0	0.0	0.0	0.0	0.0
80°	9.3	10.1	10.9	10.1	6.2	3.1	0.0	0.0	0.0	0.0	0.0
82.5°	11.6	13.2	14.7	13.2	8.5	3.9	1.6	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	2.3	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°	1998.3	1998.3	1998.3	1998.3	1998.3	1998.3	1998.3	1998.3	1998.3	1998.3	1998.3
2.5°	1699.1	1682.0	1706.0	1670.4	1669.6	1670.4	1660.3	1651.0	1665.7	1705.3	1709.1
5°	1296.8	1333.2	1344.8	1382.8	1361.9	1330.9	1337.1	1316.2	1367.3	1389.8	1372.0
7.5°	944.1	941.8	1020.1	1024.7	1034.8	1035.6	1034.0	992.9	951.1	960.4	988.3
10°	732.5	693.0	730.9	727.1	751.9	744.9	755.0	710.8	725.5	725.5	743.3
12.5°	596.8	555.0	548.0	537.9	548.0	551.9	555.8	547.2	572.0	583.7	596.1
15°	455.8	432.5	426.3	406.9	410.0	420.9	430.2	434.1	426.3	444.1	445.7
17.5°	331.0	330.2	334.1	333.3	330.2	327.9	327.1	317.0	313.9	315.5	321.7
20°	251.1	257.3	270.5	283.7	290.7	282.1	270.5	253.5	246.5	248.0	248.8
22.5°	214.7	224.0	241.8	256.6	263.5	248.0	227.1	212.4	209.3	208.5	207.7
25°	194.6	205.4	218.6	223.2	222.5	213.2	197.7	191.5	189.9	188.4	181.4
27.5°	183.7	187.6	189.9	195.3	197.7	191.5	187.6	178.3	176.7	176.7	172.1
30°	177.5	175.2	178.3	174.4	177.5	172.9	173.6	173.6	169.8	171.3	171.3
32.5°	165.1	165.9	165.9	158.1	160.5	155.0	160.5	165.1	165.9	166.7	172.9
35°	120.9	134.9	141.8	141.8	144.2	140.3	139.5	134.1	127.1	120.1	117.0
37.5°	106.2	111.6	120.9	126.3	130.2	127.1	120.1	111.6	107.7	104.6	101.5
40°	94.6	99.2	105.4	111.6	119.4	115.5	104.6	100.8	96.1	96.1	93.0
42.5°	85.3	87.6	91.5	100.8	109.3	101.5	93.8	90.7	88.4	87.6	86.8
45°	76.7	77.5	81.4	89.1	99.2	91.5	83.7	79.8	80.6	81.4	80.6
47.5°	69.0	70.5	72.9	82.2	88.4	84.5	76.0	73.6	73.6	73.6	74.4
50°	59.7	63.6	68.2	76.0	80.6	78.3	71.3	68.2	66.7	66.7	67.4
52.5°	53.5	56.6	62.8	72.1	78.3	74.4	67.4	62.8	59.7	58.9	60.5
55°	46.5	51.9	62.0	69.0	77.5	73.6	65.9	60.5	55.0	54.3	54.3
57.5°	41.9	50.4	59.7	68.2	75.2	72.1	65.9	58.9	51.9	51.2	51.2
60°	39.5	48.8	58.1	65.9	75.2	70.5	65.1	57.4	49.6	49.6	48.8
62.5°	37.2	45.7	55.0	62.8	72.1	68.2	62.8	55.0	47.3	47.3	45.7
65°	31.0	39.5	45.7	52.7	62.8	58.9	53.5	48.1	41.9	40.3	41.1
67.5°	21.7	27.1	33.3	40.3	46.5	45.0	42.6	38.8	33.3	32.6	31.8
70°	10.9	14.7	20.2	27.1	32.6	31.0	29.5	26.4	23.3	22.5	22.5
72.5°	1.6	4.7	8.5	12.4	17.1	17.8	17.1	16.3	15.5	14.7	15.5
75°	0.0	0.0	0.0	3.1	7.0	8.5	10.1	11.6	11.6	10.1	12.4
77.5°	0.0	0.0	0.0	0.0	0.8	3.9	7.8	10.1	12.4	10.9	14.7
80°	0.0	0.0	0.0	0.0	0.8	4.7	7.8	10.9	12.4	10.9	15.5
82.5°	0.0	0.0	0.0	0.0	0.8	5.4	7.8	10.1	11.6	10.9	14.0
85°	0.0	0.0	0.0	0.0	2.3	4.7	3.1	1.6	0.8	0.8	2.3
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°	1998.3	1998.3	1998.3	1998.3	1998.3	1998.3	1998.3	1998.3	1998.3	1998.3
2.5°	1730.9	1785.9	1844.8	1867.3	1937.0	1989.7	2025.4	2102.1	2113.8	2114.5
5°	1390.6	1418.5	1519.2	1566.5	1670.4	1751.0	1837.0	1961.1	2044.0	2050.2
7.5°	988.3	1065.8	1108.4	1231.7	1359.6	1485.9	1613.8	1758.0	1854.1	1856.4
10°	795.3	845.7	921.6	1013.9	1121.6	1250.3	1420.8	1588.2	1685.9	1709.9
12.5°	640.3	728.6	815.4	910.8	992.9	1089.8	1273.5	1496.8	1577.4	1625.4
15°	493.0	573.6	675.9	787.5	880.5	1010.0	1219.3	1474.3	1609.9	1626.2
17.5°	363.5	435.6	530.2	635.6	775.1	958.8	1228.6	1588.2	1716.1	1743.3
20°	261.2	303.1	377.5	500.0	677.5	899.1	1237.9	1703.7	1898.3	1944.8
22.5°	207.0	224.0	272.8	381.4	568.2	836.4	1303.8	1924.6	2148.6	2216.1
25°	179.8	189.1	212.4	300.7	499.2	830.2	1409.2	2189.7	2481.9	2530.8
27.5°	173.6	175.2	195.3	275.9	462.0	789.1	1449.5	2378.1	2689.7	2739.3
30°	182.9	207.7	209.3	233.3	393.0	707.7	1470.4	2560.2	2865.6	2902.1
32.5°	158.1	150.4	155.8	180.6	345.7	660.4	1509.9	2719.1	3066.4	3092.0
35°	110.1	115.5	127.9	156.6	302.3	610.8	1520.0	2894.3	3257.1	3283.4
37.5°	101.5	104.6	114.7	133.3	265.9	582.9	1506.1	3022.2	3454.7	3491.2
40°	94.6	98.4	103.9	120.9	238.7	551.9	1486.7	3137.7	3575.6	3665.6
42.5°	89.1	92.2	96.9	115.5	215.5	520.9	1459.6	3300.5	3684.2	3762.5
45°	82.9	87.6	93.0	112.4	202.3	500.0	1439.4	3290.4	3747.0	3788.8
47.5°	76.7	84.5	90.7	104.6	198.4	489.9	1447.9	3252.4	3695.8	3667.1
50°	70.5	80.6	91.5	86.8	189.1	469.7	1458.0	3304.4	3574.1	3568.7
52.5°	65.1	76.7	85.3	71.3	168.2	450.3	1555.7	3372.6	3660.1	3588.0
55°	57.4	69.0	68.2	57.4	136.4	435.6	1632.4	3374.1	3602.0	3629.1
57.5°	51.9	61.2	53.5	48.1	100.8	364.3	1507.6	2829.2	3083.4	3131.5
60°	48.1	59.7	40.3	38.0	65.9	262.8	1316.2	2191.3	2450.9	2541.6
62.5°	44.2	56.6	31.8	31.0	45.7	186.8	1082.1	1833.9	2112.2	2235.5
65°	38.8	40.3	25.6	24.0	32.6	100.8	658.9	1262.7	1578.9	1624.7
67.5°	31.8	31.0	20.9	19.4	21.7	48.8	290.7	632.5	915.4	992.2
70°	25.6	25.6	17.8	15.5	15.5	22.5	76.0	251.9	413.9	458.1
72.5°	18.6	19.4	14.0	12.4	11.6	10.9	12.4	50.4	108.5	138.7
75°	16.3	17.1	14.0	10.9	8.5	7.0	5.4	4.7	6.2	10.1
77.5°	17.8	17.8	14.7	10.1	7.8	5.4	3.1	1.6	1.6	0.8
80°	22.5	23.3	19.4	13.2	9.3	6.2	3.9	1.6	0.8	0.8
82.5°	24.0	26.4	21.7	16.3	11.6	7.0	3.9	0.8	0.0	0.0
85°	6.2	10.1	17.1	14.7	11.6	7.0	3.9	0.8	0.0	0.0
87.5°	0.0	0.8	2.3	2.3	3.1	3.1	2.3	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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