

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: P200646

Luminaire Tested: **GWC-AF-02-LED-E1-SLR-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-SLR-8030-800
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 800mA 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: 7198 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 86
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: 25 FT

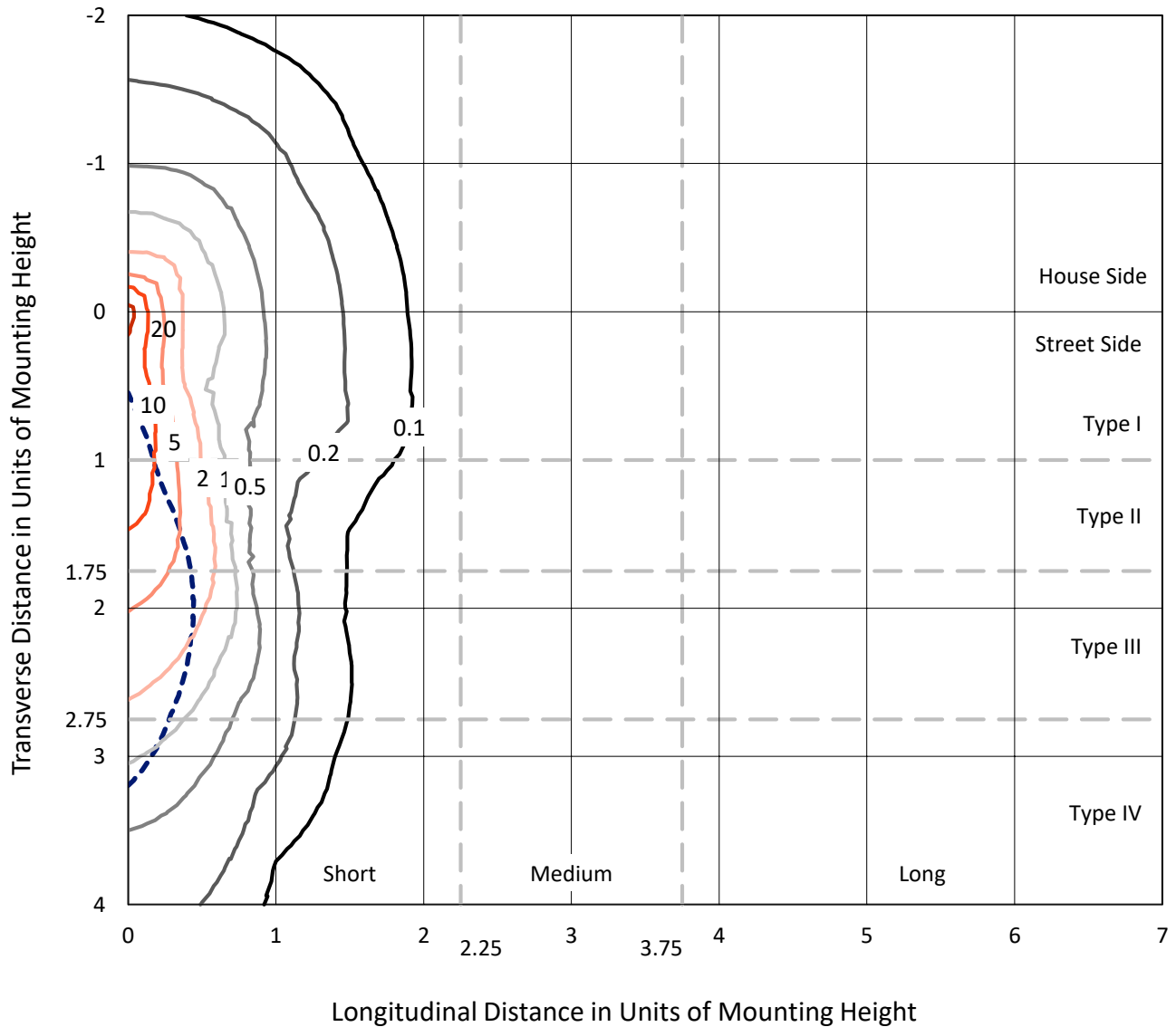


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Iso-Footcandle Lines of Horizontal Illumination

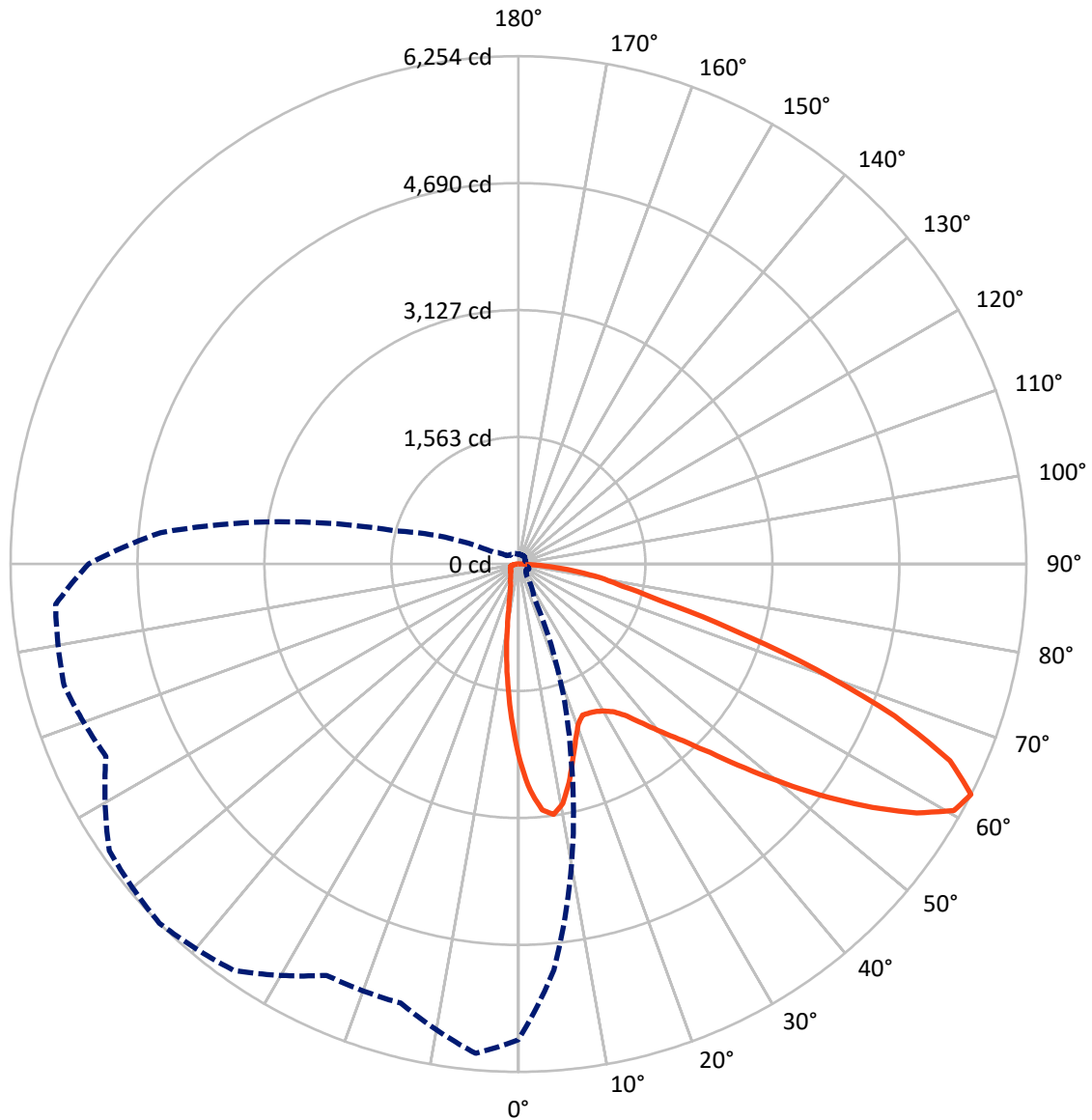
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1191.2	0.0	1191.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	6006.8	0.0	6006.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	7198.0	0.0	7198.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.0	2.5
10°-20°	324.6	4.5
20°-30°	473.3	6.6
30°-40°	729.0	10.1
40°-50°	1072.8	14.9
50°-60°	1573.6	21.9
60°-70°	1759.1	24.4
70°-80°	861.2	12.0
80°-90°	227.4	3.2
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°	7198.0	100.0
0°-180°	7198.0	100.0



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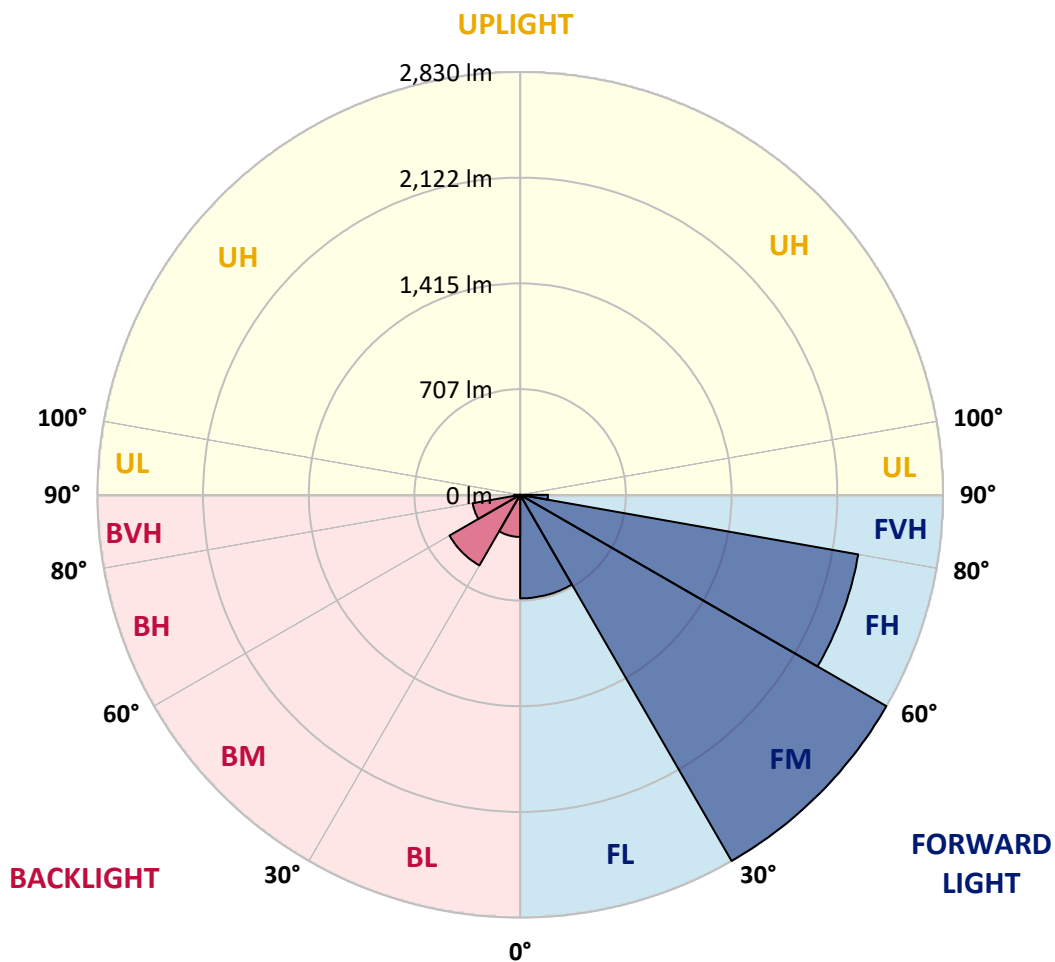
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	693.1	9.6			
FM	(30°-60°)	2829.6	39.3			
FH	(60°-80°)	2297.4	31.9			G2/5000
FVH	(80°-90°)	186.7	2.6			G2/225
BL	(0°-30°)	281.8	3.9	B1/500		
BM	(30°-60°)	545.8	7.6	B1/1000		
BH	(60°-80°)	322.9	4.5	B1/500		G1/500
BVH	(80°-90°)	40.6	0.6			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9
2.5°	2526.8	2475.4	2389.9	2300.9	2246.7	2183.4	2133.9	2090.4	2003.3	1986.3	2001.8
5°	2376.1	2272.8	2111.8	1949.5	1841.5	1725.6	1635.4	1563.0	1452.6	1433.2	1456.5
7.5°	2134.3	2010.9	1798.0	1591.0	1438.3	1293.5	1196.2	1118.6	1032.3	995.1	997.5
10°	1925.8	1786.5	1534.9	1309.7	1184.7	1086.9	1005.0	925.5	838.1	780.7	764.9
12.5°	1809.1	1648.8	1358.8	1157.8	1041.8	939.0	850.7	765.6	672.3	613.7	597.1
15°	1788.9	1614.8	1292.7	1060.4	915.2	785.0	681.0	586.0	489.9	442.4	432.5
17.5°	1876.3	1675.7	1271.3	973.8	796.1	635.5	507.7	401.6	323.3	299.5	297.6
20°	2044.1	1792.8	1268.6	892.3	678.6	490.3	353.7	276.6	242.2	235.4	235.8
22.5°	2279.5	1974.5	1302.6	830.9	570.6	365.6	265.9	231.5	218.0	211.7	211.7
25°	2584.2	2224.5	1380.9	786.2	476.8	292.0	234.6	214.1	201.4	197.1	197.8
27.5°	2879.4	2467.9	1471.9	751.0	415.5	265.1	222.4	203.8	192.7	188.3	190.3
30°	3109.7	2683.9	1547.9	703.1	384.2	257.6	226.7	207.7	191.9	185.2	185.6
32.5°	3300.4	2873.1	1611.6	668.7	356.5	220.8	195.5	187.2	185.2	177.3	173.3
35°	3544.1	3079.2	1654.4	669.5	343.5	197.1	174.1	159.5	148.8	139.7	139.7
37.5°	3829.8	3315.8	1699.9	678.6	338.7	183.2	166.6	151.9	142.1	133.3	131.8
40°	4112.3	3547.7	1741.4	687.3	335.9	174.9	160.6	147.2	138.1	129.4	127.0
42.5°	4352.5	3738.4	1778.6	691.7	326.4	174.1	156.3	144.0	135.3	125.8	123.5
45°	4530.2	3898.3	1818.6	698.4	316.9	177.3	156.3	143.6	132.9	123.8	121.5
47.5°	4688.9	4085.8	1885.4	698.4	305.5	171.3	161.4	144.0	132.6	123.1	121.1
50°	4901.3	4343.0	2012.1	682.2	289.2	165.0	170.1	142.4	129.0	121.5	119.1
52.5°	5194.1	4672.6	2213.1	654.1	264.3	152.7	169.0	141.7	125.4	117.5	114.7
55°	5540.4	5025.6	2432.3	621.2	227.1	144.0	163.0	139.7	121.5	112.8	110.0
57.5°	5810.6	5268.5	2586.6	570.6	194.7	139.3	144.4	137.7	116.7	107.6	105.3
60°	5918.2	5259.0	2628.9	502.9	178.8	135.3	126.2	154.3	112.8	103.7	100.9
62.5°	5860.1	5016.1	2510.2	455.4	175.3	130.2	118.3	142.8	109.6	100.9	96.9
65°	5591.4	4585.6	2195.6	442.8	185.6	125.0	113.2	112.0	105.3	96.9	93.0
67.5°	5006.2	3942.2	1758.0	444.0	198.6	119.9	108.0	102.5	99.3	92.6	89.0
70°	4077.5	3116.8	1310.5	447.1	205.4	114.0	102.5	96.5	93.0	86.3	83.9
72.5°	2998.1	2402.2	952.0	426.5	206.5	107.2	95.0	89.8	86.3	79.1	77.2
75°	2051.2	1837.6	660.4	353.3	180.0	97.7	86.7	81.9	79.5	70.8	69.6
77.5°	1498.5	1379.4	422.6	262.3	138.9	85.9	76.4	72.8	71.2	61.7	60.1
80°	1202.5	1091.3	264.3	179.6	101.7	72.0	64.1	62.1	60.5	51.0	49.9
82.5°	834.1	730.8	169.7	116.7	76.4	55.8	50.6	49.9	47.5	38.8	37.6
85°	440.0	396.9	107.6	79.5	55.4	38.4	35.2	35.2	34.0	25.7	24.9
87.5°	56.2	91.4	54.6	41.5	30.5	17.0	17.0	16.6	17.8	14.6	12.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9
2.5°	1965.4	1984.4	1966.2	1967.3	1987.5	2047.7	2075.0	2097.5	2121.7	2137.5	2144.6
5°	1424.5	1468.8	1483.8	1515.5	1562.2	1638.9	1669.4	1691.5	1706.2	1714.9	1718.5
7.5°	974.2	1001.1	1031.2	1082.2	1183.9	1229.0	1249.2	1244.0	1227.4	1221.5	1215.5
10°	734.4	723.7	718.2	746.3	828.6	874.1	888.3	874.5	865.4	867.3	877.2
12.5°	569.0	550.4	527.8	524.7	578.9	619.6	628.7	629.5	646.2	660.8	682.6
15°	414.7	412.7	401.6	394.9	425.8	459.0	462.9	470.1	485.1	495.8	514.8
17.5°	292.4	303.1	311.8	316.2	339.5	363.2	358.9	355.3	352.6	352.6	361.7
20°	235.8	242.9	254.0	266.7	290.4	307.1	296.4	282.1	271.8	268.7	269.9
22.5°	212.5	218.0	224.4	235.4	256.8	268.3	256.8	246.5	236.2	232.7	231.5
25°	200.6	207.7	213.7	222.0	237.8	245.7	234.6	227.1	220.8	216.4	213.3
27.5°	193.9	200.2	201.8	205.8	219.2	226.3	220.8	217.6	213.7	209.7	205.8
30°	186.8	185.6	182.8	183.2	193.9	201.0	200.6	201.4	201.0	199.8	199.0
32.5°	170.5	168.2	165.8	168.2	178.1	184.4	184.8	186.4	186.4	186.0	189.1
35°	142.1	146.4	149.2	156.3	168.2	173.7	171.3	167.4	160.3	155.9	155.5
37.5°	131.4	132.2	136.9	146.8	159.9	165.0	161.4	152.3	147.6	146.8	148.0
40°	126.2	127.0	129.8	138.9	151.9	157.1	153.9	147.2	142.8	142.4	144.4
42.5°	122.7	123.5	125.0	131.4	142.1	148.4	148.8	144.0	138.9	139.3	141.3
45°	120.7	121.1	120.7	123.8	133.7	141.3	144.4	141.3	136.9	137.7	140.1
47.5°	120.3	119.1	117.5	118.3	128.6	136.1	140.1	138.9	136.9	137.7	139.7
50°	118.7	115.9	114.0	113.6	123.8	131.8	135.3	135.3	136.1	137.7	139.7
52.5°	114.0	110.8	110.8	109.6	120.7	128.2	130.6	131.0	132.2	134.9	137.7
55°	108.0	106.8	108.0	106.0	118.3	125.4	126.6	127.4	128.2	130.6	134.5
57.5°	102.9	101.3	104.1	103.3	116.3	122.7	122.7	124.2	124.2	127.4	130.6
60°	100.1	96.9	98.1	98.9	113.6	120.3	119.5	121.1	121.9	124.6	127.0
62.5°	96.5	93.8	93.8	95.8	110.4	116.7	116.3	117.5	120.7	121.5	123.8
65°	92.2	91.0	89.8	92.2	107.2	112.8	113.2	114.7	117.5	118.3	120.3
67.5°	87.8	88.2	85.9	88.2	104.5	108.8	108.8	112.0	113.2	114.7	116.7
70°	83.1	83.5	81.5	84.3	102.5	104.5	104.1	108.4	109.2	110.4	112.4
72.5°	77.2	77.2	76.4	80.3	99.3	100.1	99.3	102.9	103.3	104.5	105.3
75°	70.8	70.8	70.0	75.6	97.3	95.4	93.0	95.8	96.5	97.3	97.3
77.5°	62.5	63.3	63.3	70.0	90.6	93.4	85.5	87.1	88.2	88.6	87.4
80°	52.2	54.2	55.0	63.7	76.0	86.3	76.4	77.6	77.9	77.9	76.4
82.5°	40.0	43.5	45.5	55.0	58.2	72.4	66.5	67.7	66.5	64.1	63.3
85°	27.7	32.4	34.8	41.9	43.9	55.8	55.4	55.4	53.0	49.9	49.5
87.5°	15.0	17.8	19.4	24.9	30.1	37.6	40.8	39.6	37.6	35.6	36.0
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9
2.5°	2181.8	2235.6	2321.5	2387.2	2453.2	2516.9	2585.8	2638.4	2683.1	2700.5	2753.6
5°	1754.5	1821.7	1902.8	2049.2	2152.9	2267.3	2399.4	2574.3	2641.6	2734.6	2886.9
7.5°	1240.5	1301.4	1432.0	1550.3	1697.1	1858.9	2037.4	2278.7	2367.0	2516.2	2764.2
10°	926.3	997.1	1102.0	1201.7	1331.1	1496.5	1701.4	1971.3	2078.5	2240.4	2526.0
12.5°	746.3	829.7	940.9	1034.7	1134.8	1251.5	1450.6	1746.5	1890.2	2031.8	2320.7
15°	573.3	660.8	764.1	883.2	993.6	1119.4	1327.9	1651.6	1817.0	1964.6	2211.1
17.5°	396.9	471.7	601.8	726.1	867.3	1028.4	1293.9	1671.8	1869.2	2039.4	2230.1
20°	281.3	324.1	430.9	574.9	751.0	953.2	1287.6	1777.8	2034.6	2228.9	2351.9
22.5°	236.6	252.4	314.6	446.7	650.1	897.0	1309.7	1926.6	2257.8	2505.9	2546.2
25°	215.6	225.1	257.6	350.6	560.3	856.3	1384.5	2148.2	2534.0	2782.8	2775.7
27.5°	204.2	214.1	235.4	296.0	492.6	830.9	1459.3	2410.9	2849.7	3083.6	2994.9
30°	200.6	214.1	236.6	279.0	444.4	791.0	1520.6	2641.6	3092.7	3286.5	3094.6
32.5°	197.8	199.8	210.1	240.6	398.5	744.3	1562.2	2848.5	3330.5	3479.6	3238.3
35°	159.9	169.7	186.4	215.6	371.5	716.2	1562.2	3027.0	3564.7	3674.7	3375.2
37.5°	153.9	162.6	177.3	202.2	356.5	702.3	1530.9	3199.1	3804.1	3895.9	3488.0
40°	150.8	157.9	171.7	191.9	350.2	686.5	1485.4	3351.0	4038.0	4117.5	3593.2
42.5°	148.4	154.7	167.8	185.6	341.9	669.1	1448.6	3472.9	4240.9	4306.6	3693.7
45°	147.2	153.9	168.2	188.7	325.3	646.2	1436.3	3604.7	4407.9	4464.5	3802.5
47.5°	147.2	155.1	170.1	195.5	305.5	622.4	1474.7	3778.4	4565.8	4593.5	3930.7
50°	146.0	154.7	175.7	188.7	276.6	592.3	1564.9	3997.2	4736.7	4739.9	4093.0
52.5°	143.6	153.9	189.1	184.8	243.3	552.8	1686.8	4278.1	4989.6	5008.6	4347.0
55°	140.9	152.7	185.6	175.7	216.0	505.7	1786.5	4619.6	5344.9	5397.5	4720.5
57.5°	137.3	151.2	179.6	163.0	198.2	445.1	1822.5	4869.7	5593.0	5725.1	5141.5
60°	134.1	150.0	162.2	155.5	187.2	394.1	1752.9	4820.2	5576.0	5860.9	5514.6
62.5°	131.0	151.2	148.0	150.8	182.0	361.3	1570.9	4424.1	5293.9	5720.8	5791.2
65°	127.4	140.5	139.7	146.8	180.8	348.2	1302.2	3830.2	4748.6	5278.0	5856.5
67.5°	122.7	129.8	133.7	141.7	184.8	336.7	1050.9	3159.5	3990.9	4614.5	5516.2
70°	117.5	123.5	127.8	135.3	182.4	331.6	874.1	2491.6	3166.7	3781.9	4844.8
72.5°	110.8	115.9	119.9	127.0	180.0	328.8	738.3	2006.5	2364.2	2809.4	3939.0
75°	102.9	107.6	110.4	117.5	172.5	301.1	580.5	1697.9	1769.1	1954.3	3137.4
77.5°	93.8	97.3	99.7	107.6	152.7	250.5	419.8	1309.7	1373.8	1418.9	2405.4
80°	83.1	86.7	87.8	95.4	126.6	195.9	273.8	967.4	1027.6	1037.9	1570.9
82.5°	70.8	74.4	74.4	81.5	103.7	140.9	179.6	662.8	674.6	709.5	1110.3
85°	57.0	59.7	59.7	63.3	80.3	105.3	123.5	332.8	329.2	375.9	961.9
87.5°	40.8	42.7	44.7	45.5	57.4	69.6	74.4	101.3	66.9	76.8	617.7
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9
2.5°	2793.5	2816.1	2793.1	2776.5	2704.9	2645.9	2567.2	2526.8
5°	3002.8	3060.2	3040.8	2971.2	2821.6	2653.5	2462.3	2376.1
7.5°	2977.5	3110.9	3114.0	2983.9	2763.5	2515.8	2257.0	2134.3
10°	2780.5	2951.0	2999.7	2873.5	2639.6	2362.6	2065.9	1925.8
12.5°	2560.5	2727.4	2764.6	2721.1	2525.6	2247.5	1946.4	1809.1
15°	2380.4	2455.2	2499.5	2537.5	2427.9	2201.6	1939.6	1788.9
17.5°	2270.8	2262.5	2275.2	2341.3	2359.9	2254.2	2042.5	1876.3
20°	2231.3	2104.2	2101.1	2192.1	2327.8	2379.6	2243.5	2044.1
22.5°	2253.0	2047.3	2021.2	2129.2	2344.8	2560.5	2507.1	2279.5
25°	2328.2	2052.0	2031.0	2135.5	2406.5	2753.2	2791.5	2584.2
27.5°	2446.5	2082.1	2054.4	2161.6	2488.5	2915.0	3071.7	2879.4
30°	2558.9	2134.3	2099.9	2213.1	2563.2	2979.1	3243.4	3109.7
32.5°	2695.4	2232.1	2171.5	2307.6	2655.8	3081.2	3396.5	3300.4
35°	2829.1	2371.3	2296.2	2453.6	2759.1	3208.2	3571.4	3544.1
37.5°	2975.9	2553.3	2491.2	2642.4	2900.4	3328.1	3794.6	3829.8
40°	3132.6	2794.7	2721.1	2917.8	3119.6	3478.5	4027.7	4112.3
42.5°	3290.5	3062.6	2974.8	3174.2	3360.5	3626.8	4227.1	4352.5
45°	3471.3	3353.4	3311.9	3527.5	3592.0	3768.1	4374.3	4530.2
47.5°	3681.8	3683.4	3750.3	3836.5	3825.5	3928.0	4522.3	4688.9
50°	3927.6	4095.3	4242.9	4300.3	4066.0	4099.7	4727.6	4901.3
52.5°	4222.7	4588.0	4770.8	4733.2	4325.2	4309.4	5052.9	5194.1
55°	4591.9	5109.5	5291.1	5264.2	4623.2	4595.1	5458.1	5540.4
57.5°	5019.2	5614.8	5781.7	5660.7	4980.9	4908.5	5793.2	5810.6
60°	5394.8	6015.2	6161.6	6027.5	5341.7	5242.0	6002.5	5918.2
62.5°	5603.7	6150.9	6253.8	6109.4	5589.0	5597.3	6048.4	5860.1
65°	5510.3	5807.8	5841.1	5829.2	5525.3	5803.5	5883.4	5591.4
67.5°	4999.1	4940.5	4996.3	5073.5	4979.3	5532.1	5426.4	5006.2
70°	4098.5	3776.8	3888.0	3939.8	3982.6	4760.5	4709.8	4077.5
72.5°	3088.7	2645.9	2733.8	2723.1	2920.9	3818.3	3662.8	2998.1
75°	2188.5	1794.0	1805.1	1800.8	2038.2	2987.4	2652.3	2051.2
77.5°	1531.3	1299.8	1305.8	1330.3	1370.3	2253.0	1894.9	1498.5
80°	1052.9	986.4	1019.3	1021.3	949.6	1513.5	1399.9	1202.5
82.5°	784.2	685.7	677.8	689.3	744.3	1226.2	1075.9	834.1
85°	642.2	406.0	326.4	409.1	659.6	1214.4	714.6	440.0
87.5°	361.7	192.7	87.1	161.4	263.1	804.0	206.5	56.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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