

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: P200329

Luminaire Tested: **GWC-AF-01-LED-E1-SLR-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200329
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-01-LED-E1-SLR-7050-1200
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6129 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

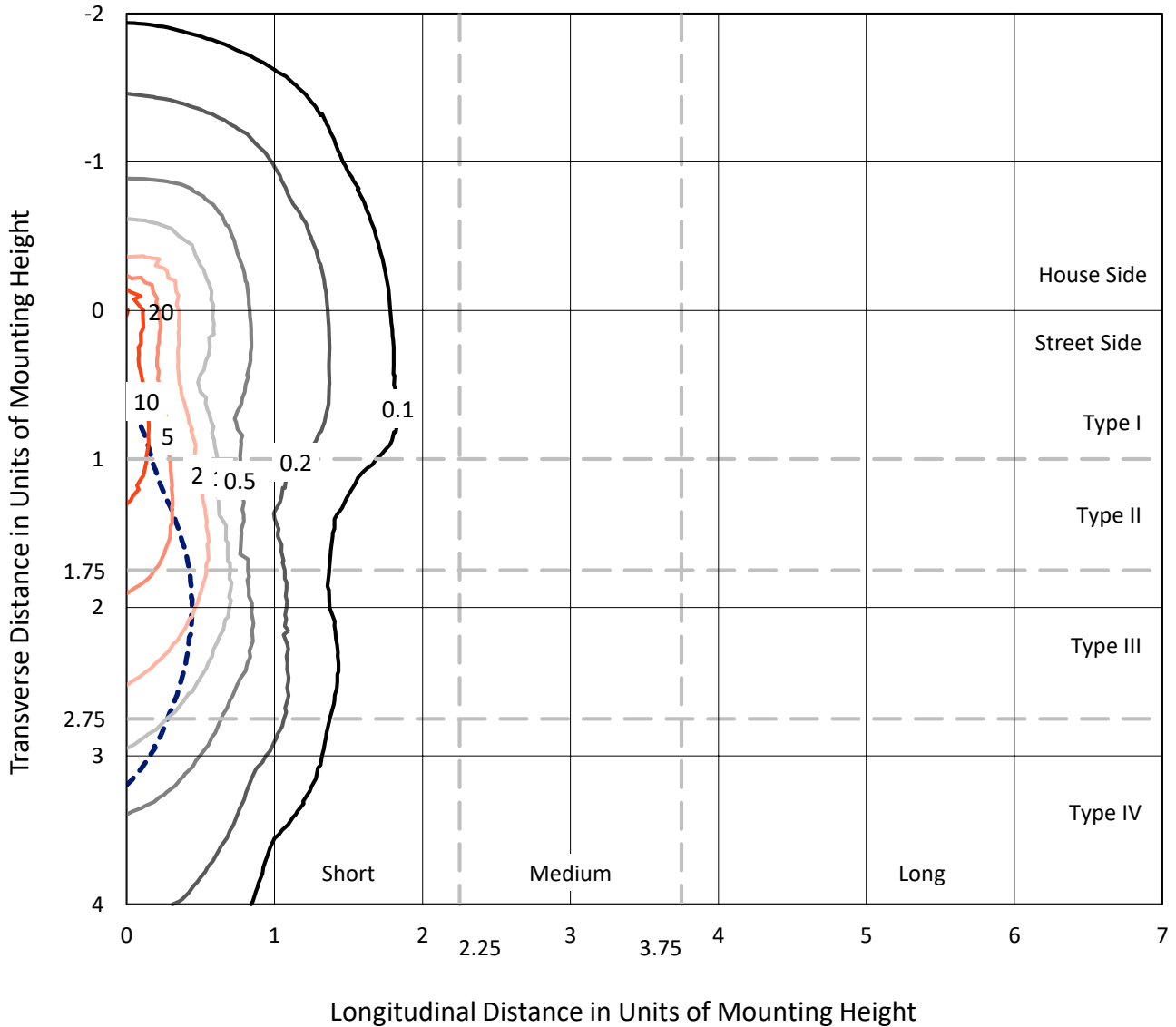


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Iso-Footcandle Lines of Horizontal Illumination

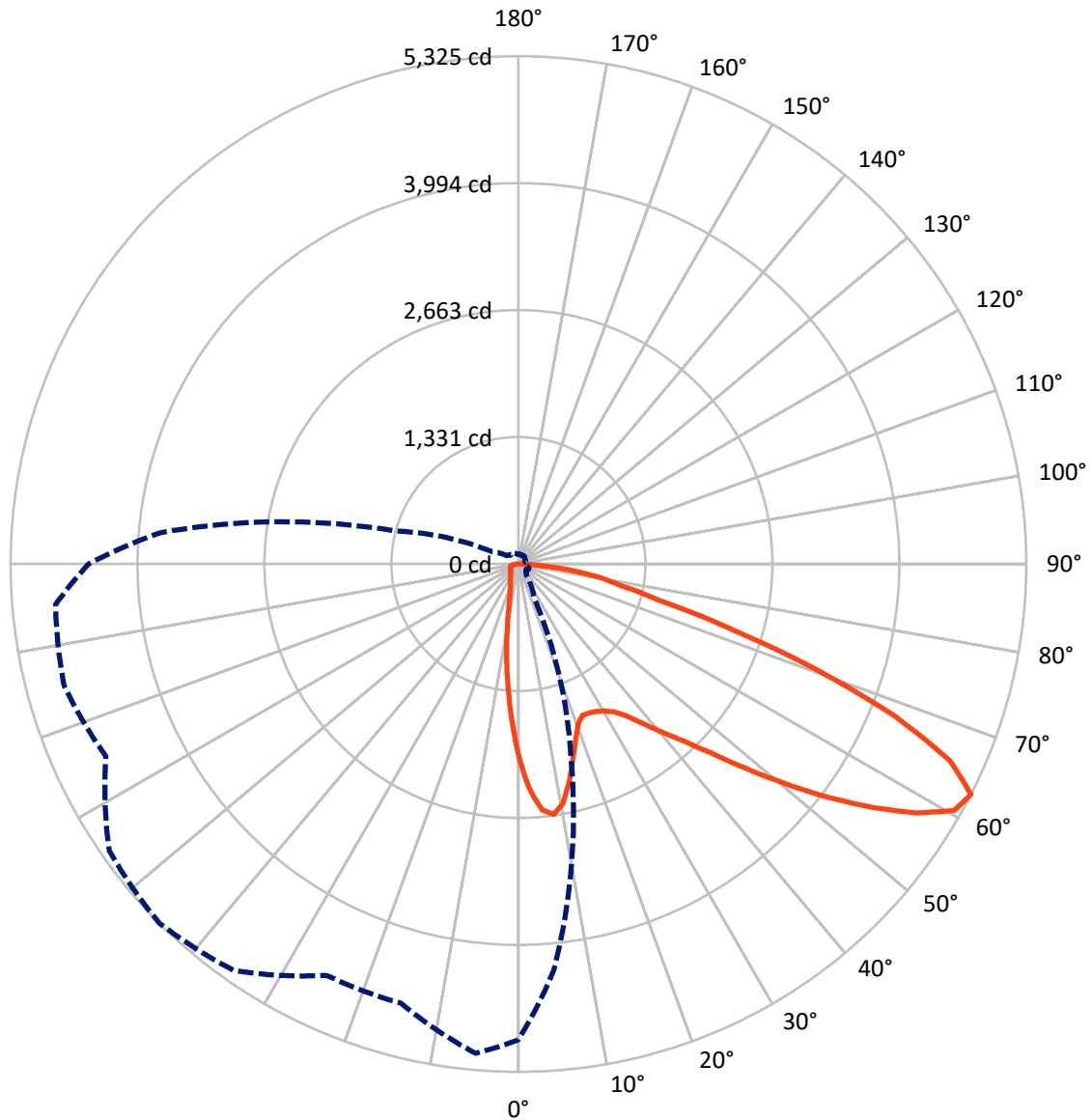
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.7 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	1014.3	0.0	1014.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	5114.7	0.0	5114.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	6129.0	0.0	6129.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.7	2.5
10°-20°	276.4	4.5
20°-30°	403.0	6.6
30°-40°	620.7	10.1
40°-50°	913.5	14.9
50°-60°	1339.9	21.9
60°-70°	1497.8	24.4
70°-80°	733.3	12.0
80°-90°	193.6	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°	6129.0	100.0
0°-180°	6129.0	100.0

Coefficient of Utilization



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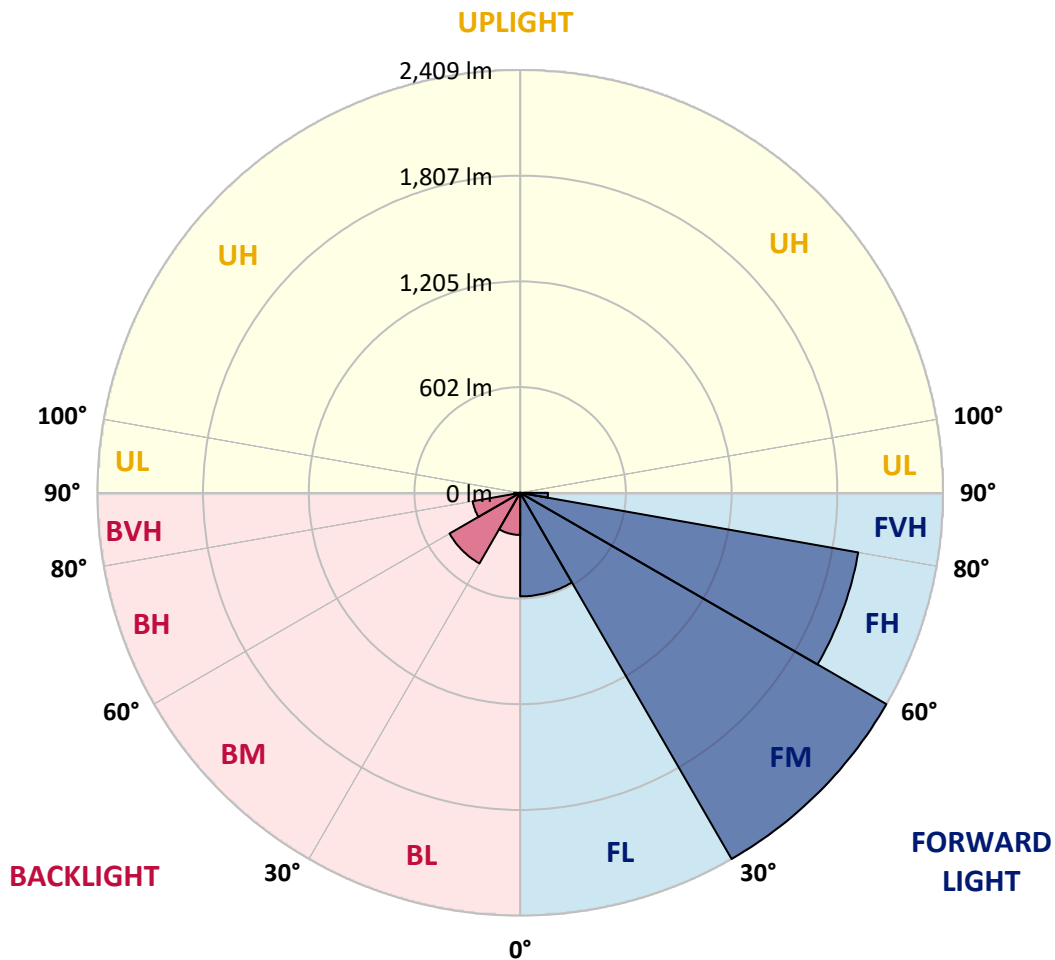
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	590.2	9.6			
FM	(30°-60°)	2409.4	39.3			
FH	(60°-80°)	1956.2	31.9			G2/5000
FVH	(80°-90°)	159.0	2.6			G2/225
BL	(0°-30°)	240.0	3.9	B1/500		
BM	(30°-60°)	464.7	7.6	B1/1000		
BH	(60°-80°)	275.0	4.5	B1/500		G1/500
BVH	(80°-90°)	34.6	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°	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7
2.5°	2151.6	2107.8	2035.0	1959.2	1913.0	1859.1	1817.0	1779.9	1705.8	1691.3	1704.5
5°	2023.2	1935.3	1798.1	1660.0	1568.0	1469.3	1392.5	1330.8	1236.8	1220.3	1240.2
7.5°	1817.3	1712.2	1531.0	1354.8	1224.7	1101.4	1018.5	952.5	879.0	847.4	849.4
10°	1639.8	1521.2	1306.9	1115.2	1008.7	925.5	855.8	788.1	713.6	664.7	651.3
12.5°	1540.4	1403.9	1157.0	985.8	887.1	799.5	724.4	651.9	572.4	522.6	508.4
15°	1523.2	1375.0	1100.7	902.9	779.3	668.4	579.8	499.0	417.1	376.7	368.3
17.5°	1597.7	1426.9	1082.5	829.2	677.9	541.1	432.3	342.0	275.3	255.0	253.4
20°	1740.5	1526.6	1080.2	759.8	577.8	417.4	301.2	235.5	206.2	200.5	200.8
22.5°	1941.0	1681.2	1109.1	707.5	485.8	311.3	226.4	197.1	185.6	180.3	180.3
25°	2200.4	1894.2	1175.8	669.5	406.0	248.6	199.8	182.3	171.5	167.8	168.5
27.5°	2451.8	2101.4	1253.3	639.5	353.8	225.7	189.3	173.5	164.1	160.4	162.1
30°	2647.8	2285.3	1318.0	598.7	327.1	219.3	193.1	176.9	163.4	157.7	158.0
32.5°	2810.2	2446.4	1372.3	569.4	303.6	188.0	166.4	159.4	157.7	150.9	147.6
35°	3017.8	2621.9	1408.7	570.1	292.4	167.8	148.2	135.8	126.7	118.9	118.9
37.5°	3261.0	2823.4	1447.4	577.8	288.4	156.0	141.8	129.4	121.0	113.5	112.2
40°	3501.6	3020.8	1482.8	585.2	286.0	148.9	136.8	125.3	117.6	110.2	108.2
42.5°	3706.1	3183.2	1514.5	588.9	278.0	148.2	133.1	122.6	115.2	107.1	105.1
45°	3857.4	3319.3	1548.5	594.7	269.9	150.9	133.1	122.3	113.2	105.5	103.4
47.5°	3992.5	3479.0	1605.4	594.7	260.1	145.9	137.5	122.6	112.9	104.8	103.1
50°	4173.4	3698.0	1713.2	580.8	246.3	140.5	144.9	121.3	109.8	103.4	101.4
52.5°	4422.7	3978.7	1884.4	556.9	225.1	130.1	143.9	120.6	106.8	100.1	97.7
55°	4717.5	4279.2	2071.0	529.0	193.4	122.6	138.8	118.9	103.4	96.0	93.7
57.5°	4947.7	4486.1	2202.4	485.8	165.8	118.6	123.0	117.2	99.4	91.6	89.6
60°	5039.3	4478.0	2238.5	428.2	152.3	115.2	107.5	131.4	96.0	88.3	85.9
62.5°	4989.8	4271.1	2137.4	387.8	149.3	110.8	100.7	121.6	93.3	85.9	82.5
65°	4761.0	3904.6	1869.6	377.0	158.0	106.5	96.4	95.3	89.6	82.5	79.2
67.5°	4262.7	3356.7	1496.9	378.0	169.1	102.1	92.0	87.3	84.6	78.8	75.8
70°	3472.0	2653.9	1115.9	380.7	174.9	97.0	87.3	82.2	79.2	73.4	71.4
72.5°	2552.8	2045.4	810.6	363.2	175.9	91.3	80.9	76.5	73.4	67.4	65.7
75°	1746.6	1564.7	562.3	300.9	153.3	83.2	73.8	69.7	67.7	60.3	59.3
77.5°	1275.9	1174.5	359.8	223.4	118.3	73.1	65.0	62.0	60.6	52.6	51.2
80°	1023.9	929.2	225.1	153.0	86.6	61.3	54.6	52.9	51.5	43.5	42.5
82.5°	710.2	622.3	144.5	99.4	65.0	47.5	43.1	42.5	40.4	33.0	32.0
85°	374.7	337.9	91.6	67.7	47.2	32.7	30.0	30.0	29.0	21.9	21.2
87.5°	47.8	77.8	46.5	35.4	25.9	14.5	14.5	14.2	15.2	12.5	10.8
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°	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7
2.5°	1673.5	1689.7	1674.2	1675.2	1692.3	1743.6	1766.8	1786.0	1806.6	1820.0	1826.1
5°	1212.9	1250.6	1263.4	1290.4	1330.2	1395.5	1421.5	1440.3	1452.8	1460.2	1463.2
7.5°	829.5	852.4	878.0	921.5	1008.1	1046.5	1063.7	1059.3	1045.1	1040.1	1035.0
10°	625.3	616.2	611.5	635.4	705.5	744.3	756.4	744.6	736.8	738.5	747.0
12.5°	484.5	468.7	449.5	446.8	492.9	527.6	535.4	536.0	550.2	562.7	581.2
15°	353.1	351.4	342.0	336.2	362.5	390.8	394.2	400.3	413.1	422.2	438.3
17.5°	249.0	258.1	265.5	269.2	289.1	309.3	305.6	302.6	300.2	300.2	307.9
20°	200.8	206.9	216.3	227.1	247.3	261.4	252.4	240.2	231.5	228.8	229.8
22.5°	180.9	185.6	191.0	200.5	218.7	228.4	218.7	209.9	201.1	198.1	197.1
25°	170.8	176.9	181.9	189.0	202.5	209.2	199.8	193.4	188.0	184.3	181.6
27.5°	165.1	170.5	171.8	175.2	186.7	192.7	188.0	185.3	181.9	178.6	175.2
30°	159.0	158.0	155.7	156.0	165.1	171.2	170.8	171.5	171.2	170.1	169.5
32.5°	145.2	143.2	141.2	143.2	151.6	157.0	157.3	158.7	158.7	158.4	161.0
35°	121.0	124.7	127.0	133.1	143.2	147.9	145.9	142.5	136.5	132.7	132.4
37.5°	111.9	112.5	116.6	125.0	136.1	140.5	137.5	129.7	125.7	125.0	126.0
40°	107.5	108.2	110.5	118.3	129.4	133.8	131.1	125.3	121.6	121.3	123.0
42.5°	104.4	105.1	106.5	111.9	121.0	126.3	126.7	122.6	118.3	118.6	120.3
45°	102.8	103.1	102.8	105.5	113.9	120.3	123.0	120.3	116.6	117.2	119.3
47.5°	102.4	101.4	100.1	100.7	109.5	115.9	119.3	118.3	116.6	117.2	118.9
50°	101.1	98.7	97.0	96.7	105.5	112.2	115.2	115.2	115.9	117.2	118.9
52.5°	97.0	94.3	94.3	93.3	102.8	109.2	111.2	111.5	112.5	114.9	117.2
55°	92.0	91.0	92.0	90.3	100.7	106.8	107.8	108.5	109.2	111.2	114.6
57.5°	87.6	86.3	88.6	87.9	99.1	104.4	104.4	105.8	105.8	108.5	111.2
60°	85.2	82.5	83.6	84.2	96.7	102.4	101.7	103.1	103.8	106.1	108.2
62.5°	82.2	79.8	79.8	81.5	94.0	99.4	99.1	100.1	102.8	103.4	105.5
65°	78.5	77.5	76.5	78.5	91.3	96.0	96.4	97.7	100.1	100.7	102.4
67.5°	74.8	75.1	73.1	75.1	88.9	92.7	92.7	95.3	96.4	97.7	99.4
70°	70.8	71.1	69.4	71.8	87.3	88.9	88.6	92.3	93.0	94.0	95.7
72.5°	65.7	65.7	65.0	68.4	84.6	85.2	84.6	87.6	87.9	88.9	89.6
75°	60.3	60.3	59.6	64.4	82.9	81.2	79.2	81.5	82.2	82.9	82.9
77.5°	53.2	53.9	53.9	59.6	77.2	79.5	72.8	74.1	75.1	75.5	74.5
80°	44.5	46.2	46.8	54.2	64.7	73.4	65.0	66.0	66.4	66.4	65.0
82.5°	34.0	37.1	38.7	46.8	49.5	61.7	56.6	57.6	56.6	54.6	53.9
85°	23.6	27.6	29.6	35.7	37.4	47.5	47.2	47.2	45.1	42.5	42.1
87.5°	12.8	15.2	16.5	21.2	25.6	32.0	34.7	33.7	32.0	30.3	30.7
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7
2.5°	1857.8	1903.6	1976.7	2032.6	2088.9	2143.1	2201.8	2246.6	2284.7	2299.5	2344.6
5°	1493.9	1551.2	1620.2	1744.9	1833.2	1930.5	2043.1	2192.0	2249.3	2328.4	2458.2
7.5°	1056.2	1108.1	1219.3	1320.1	1445.0	1582.8	1734.8	1940.3	2015.5	2142.5	2353.7
10°	788.7	849.0	938.3	1023.2	1133.4	1274.2	1448.8	1678.5	1769.8	1907.6	2150.9
12.5°	635.4	706.5	801.2	881.0	966.3	1065.7	1235.1	1487.2	1609.5	1730.1	1976.0
15°	488.2	562.7	650.6	752.0	846.0	953.1	1130.7	1406.3	1547.1	1672.8	1882.7
17.5°	337.9	401.6	512.5	618.2	738.5	875.7	1101.7	1423.5	1591.6	1736.5	1898.9
20°	239.5	275.9	366.9	489.5	639.5	811.6	1096.3	1513.8	1732.4	1897.9	2002.6
22.5°	201.5	215.0	267.9	380.4	553.6	763.8	1115.2	1640.5	1922.5	2133.7	2168.1
25°	183.6	191.7	219.3	298.5	477.1	729.1	1178.9	1829.1	2157.6	2369.6	2363.5
27.5°	173.9	182.3	200.5	252.0	419.5	707.5	1242.6	2052.8	2426.5	2625.6	2550.1
30°	170.8	182.3	201.5	237.5	378.4	673.5	1294.8	2249.3	2633.4	2798.5	2635.0
32.5°	168.5	170.1	178.9	204.8	339.3	633.7	1330.2	2425.5	2835.9	2962.9	2757.3
35°	136.1	144.5	158.7	183.6	316.4	609.8	1330.2	2577.4	3035.3	3129.0	2873.9
37.5°	131.1	138.5	150.9	172.2	303.6	598.0	1303.5	2724.0	3239.1	3317.3	2969.9
40°	128.4	134.4	146.2	163.4	298.2	584.6	1264.8	2853.4	3438.3	3506.0	3059.6
42.5°	126.3	131.7	142.9	158.0	291.1	569.7	1233.5	2957.1	3611.1	3667.0	3145.1
45°	125.3	131.1	143.2	160.7	276.9	550.2	1223.0	3069.3	3753.3	3801.5	3237.8
47.5°	125.3	132.1	144.9	166.4	260.1	530.0	1255.7	3217.2	3887.7	3911.3	3347.0
50°	124.3	131.7	149.6	160.7	235.5	504.4	1332.5	3403.6	4033.3	4036.0	3485.1
52.5°	122.3	131.1	161.0	157.3	207.2	470.7	1436.3	3642.8	4248.6	4264.7	3701.4
55°	119.9	130.1	158.0	149.6	184.0	430.6	1521.2	3933.5	4551.1	4595.9	4019.4
57.5°	116.9	128.7	153.0	138.8	168.8	379.0	1551.9	4146.5	4762.4	4874.9	4377.9
60°	114.2	127.7	138.1	132.4	159.4	335.6	1492.6	4104.4	4747.9	4990.4	4695.6
62.5°	111.5	128.7	126.0	128.4	155.0	307.6	1337.6	3767.1	4507.6	4871.2	4931.2
65°	108.5	119.6	118.9	125.0	154.0	296.5	1108.8	3261.4	4043.4	4494.2	4986.7
67.5°	104.4	110.5	113.9	120.6	157.3	286.7	894.9	2690.3	3398.2	3929.2	4697.0
70°	100.1	105.1	108.8	115.2	155.3	282.3	744.3	2121.6	2696.4	3220.3	4125.2
72.5°	94.3	98.7	102.1	108.2	153.3	280.0	628.7	1708.5	2013.1	2392.1	3354.0
75°	87.6	91.6	94.0	100.1	146.9	256.4	494.3	1445.7	1506.4	1664.0	2671.4
77.5°	79.8	82.9	84.9	91.6	130.1	213.3	357.5	1115.2	1169.8	1208.2	2048.1
80°	70.8	73.8	74.8	81.2	107.8	166.8	233.1	823.8	875.0	883.7	1337.6
82.5°	60.3	63.3	63.3	69.4	88.3	119.9	153.0	564.3	574.4	604.1	945.4
85°	48.5	50.9	50.9	53.9	68.4	89.6	105.1	283.3	280.3	320.1	819.1
87.5°	34.7	36.4	38.1	38.7	48.9	59.3	63.3	86.3	56.9	65.4	525.9
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7	2070.7
2.5°	2378.7	2397.9	2378.3	2364.2	2303.2	2253.0	2185.9	2151.6
5°	2556.9	2605.7	2589.2	2529.9	2402.6	2259.4	2096.6	2023.2
7.5°	2535.3	2648.9	2651.6	2540.7	2353.0	2142.1	1921.8	1817.3
10°	2367.5	2512.7	2554.2	2446.7	2247.6	2011.7	1759.1	1639.8
12.5°	2180.2	2322.4	2354.1	2317.0	2150.6	1913.7	1657.3	1540.4
15°	2026.9	2090.6	2128.3	2160.7	2067.3	1874.6	1651.6	1523.2
17.5°	1933.6	1926.5	1937.3	1993.6	2009.4	1919.4	1739.2	1597.7
20°	1899.9	1791.7	1789.0	1866.5	1982.1	2026.2	1910.3	1740.5
22.5°	1918.4	1743.2	1721.0	1813.0	1996.6	2180.2	2134.7	1941.0
25°	1982.4	1747.3	1729.4	1818.4	2049.1	2344.3	2377.0	2200.4
27.5°	2083.2	1772.9	1749.3	1840.6	2118.9	2482.1	2615.5	2451.8
30°	2178.9	1817.3	1788.0	1884.4	2182.6	2536.7	2761.7	2647.8
32.5°	2295.1	1900.6	1849.0	1964.9	2261.4	2623.6	2892.1	2810.2
35°	2409.0	2019.2	1955.1	2089.2	2349.3	2731.7	3041.0	3017.8
37.5°	2534.0	2174.1	2121.2	2249.9	2469.6	2833.8	3231.1	3261.0
40°	2667.4	2379.7	2317.0	2484.4	2656.3	2961.9	3429.5	3501.6
42.5°	2801.8	2607.8	2533.0	2702.8	2861.5	3088.2	3599.3	3706.1
45°	2955.8	2855.4	2820.0	3003.6	3058.6	3208.5	3724.6	3857.4
47.5°	3135.0	3136.4	3193.3	3266.8	3257.3	3344.6	3850.7	3992.5
50°	3344.3	3487.1	3612.8	3661.6	3462.2	3490.8	4025.5	4173.4
52.5°	3595.6	3906.6	4062.2	4030.2	3682.9	3669.4	4302.5	4422.7
55°	3909.9	4350.6	4505.3	4482.4	3936.6	3912.6	4647.5	4717.5
57.5°	4273.8	4780.9	4923.1	4820.0	4241.1	4179.5	4932.8	4947.7
60°	4593.6	5121.8	5246.5	5132.3	4548.4	4463.5	5111.1	5039.3
62.5°	4771.5	5237.4	5325.0	5202.0	4759.0	4766.1	5150.1	4989.8
65°	4691.9	4945.3	4973.6	4963.5	4704.7	4941.6	5009.7	4761.0
67.5°	4256.6	4206.8	4254.3	4320.0	4239.8	4710.5	4620.5	4262.7
70°	3489.8	3215.9	3310.6	3354.7	3391.1	4053.5	4010.4	3472.0
72.5°	2630.0	2253.0	2327.8	2318.7	2487.1	3251.3	3118.9	2552.8
75°	1863.5	1527.6	1537.0	1533.3	1735.5	2543.7	2258.4	1746.6
77.5°	1303.9	1106.8	1111.8	1132.7	1166.8	1918.4	1613.5	1275.9
80°	896.5	839.9	867.9	869.6	808.6	1288.7	1192.0	1023.9
82.5°	667.8	583.9	577.1	586.9	633.7	1044.1	916.1	710.2
85°	546.8	345.7	278.0	348.4	561.6	1034.0	608.5	374.7
87.5°	307.9	164.1	74.1	137.5	224.1	684.6	175.9	47.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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