

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: P191339

Luminaire Tested: **GLEON-AF-01-LED-E1-SLR-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191339
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: GLEON-AF-01-LED-E1-SLR-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 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: 6146.9 lumens
Efficiency: N/A
Efficacy: 91.7 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

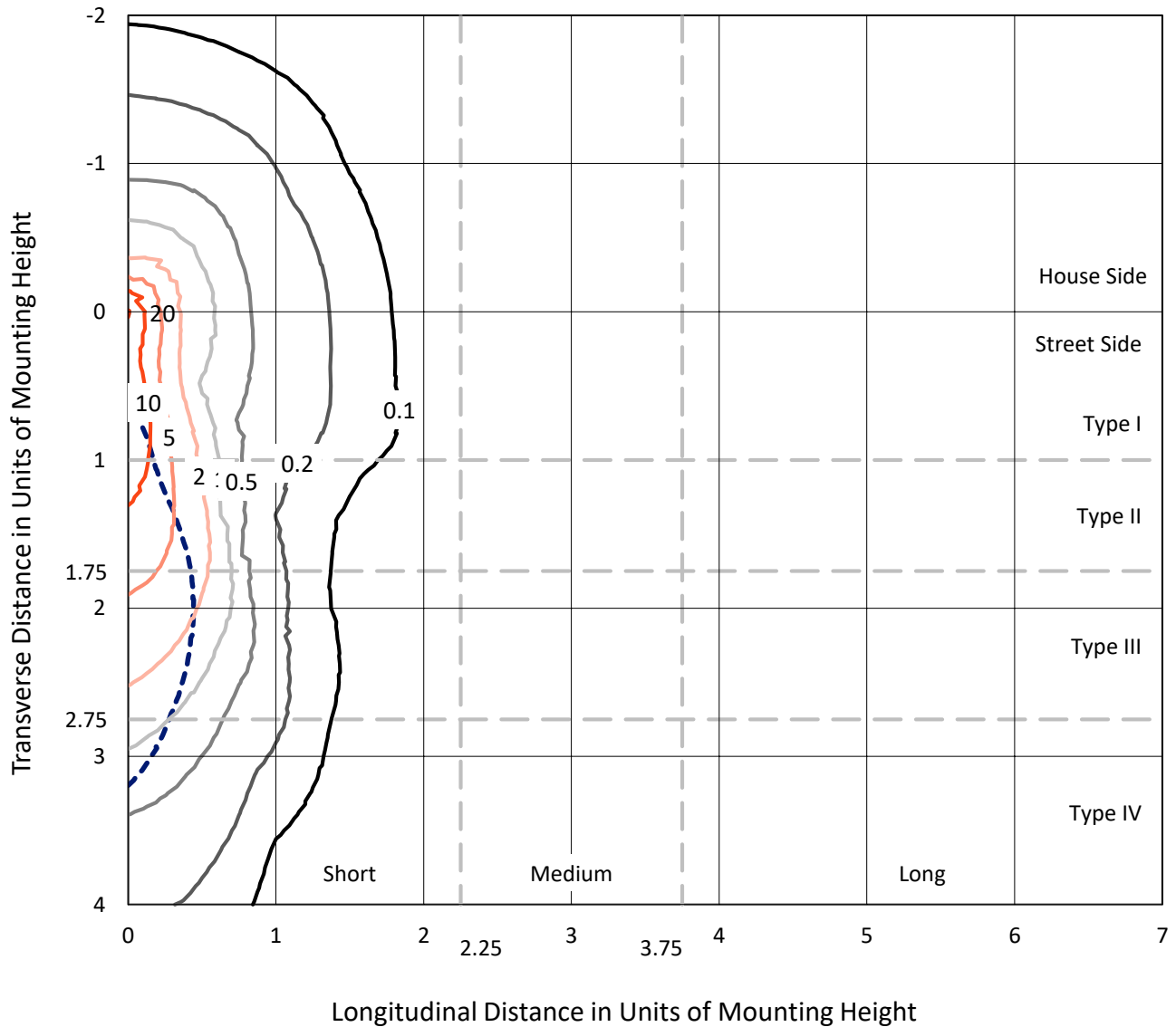
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

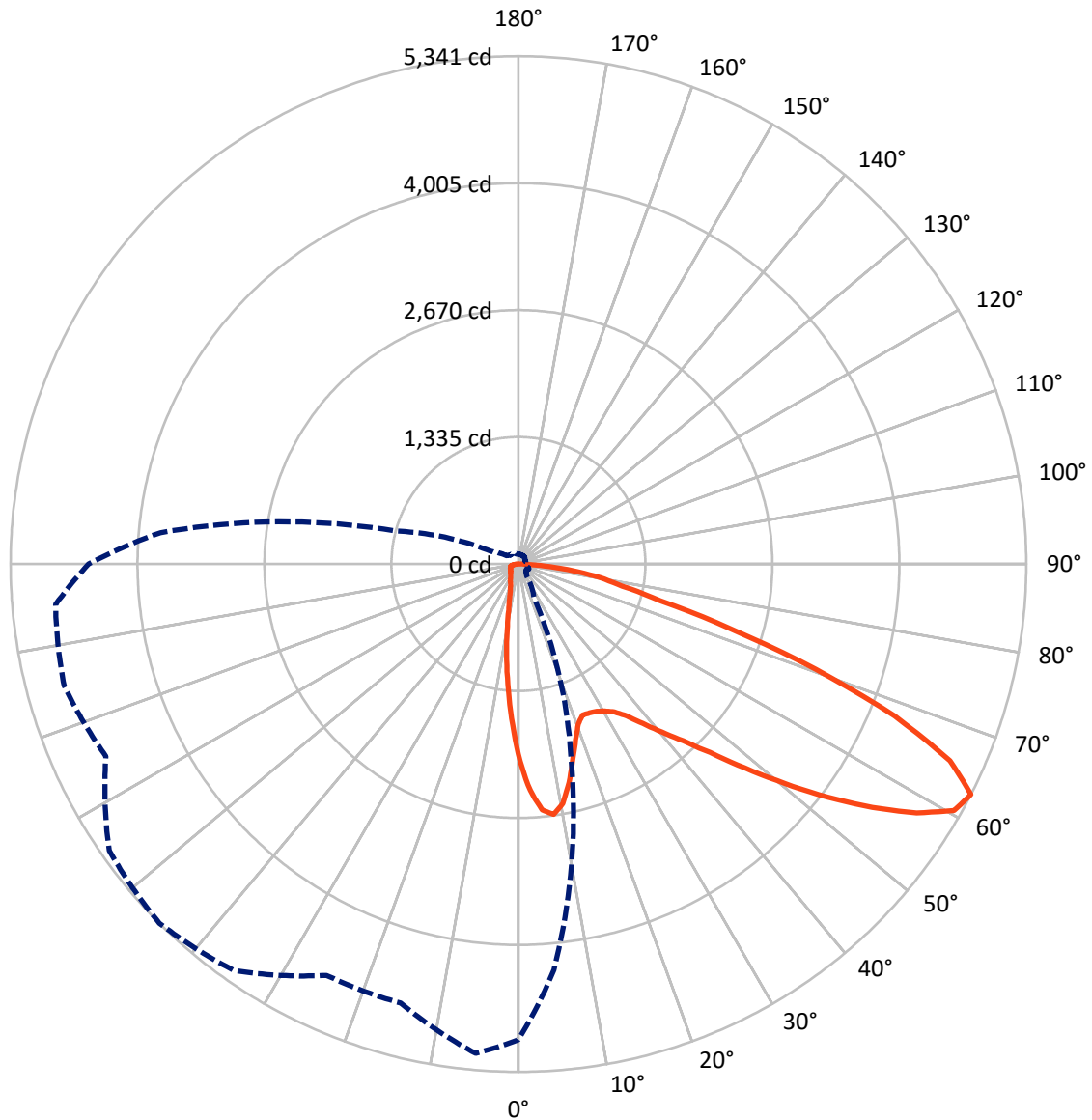
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.8 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	1017.2	0.0	1017.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	5129.7	0.0	5129.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	6146.9	0.0	6146.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.2	2.5
10°-20°	277.2	4.5
20°-30°	404.2	6.6
30°-40°	622.5	10.1
40°-50°	916.2	14.9
50°-60°	1343.8	21.9
60°-70°	1502.2	24.4
70°-80°	735.5	12.0
80°-90°	194.2	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°	6146.9	100.0
0°-180°	6146.9	100.0

Coefficient of Utilization



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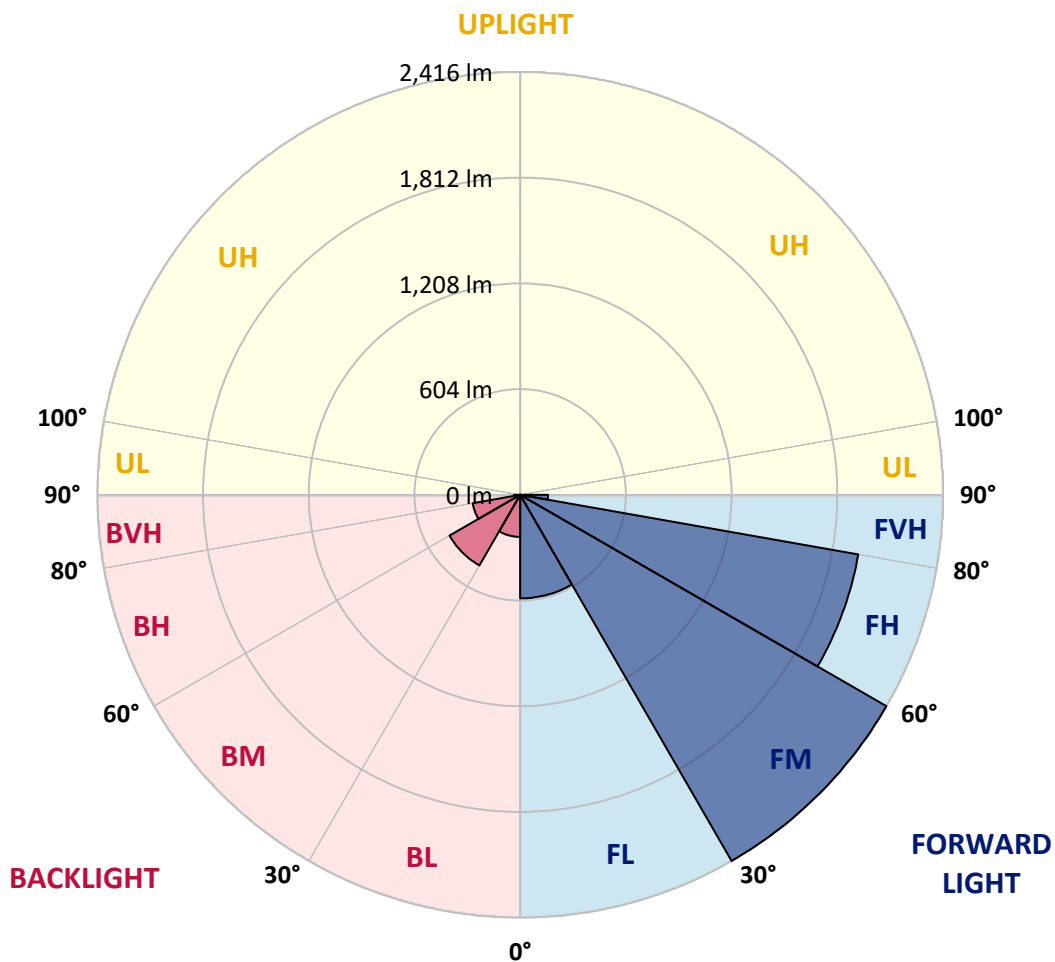
CATALOG NUMBER: GLEON-AF-01-LED-E1-SLR-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	591.9	9.6			
FM (30°-60°)	2416.4	39.3			
FH (60°-80°)	1961.9	31.9			G2/5000
FVH (80°-90°)	159.5	2.6			G2/225
BL (0°-30°)	240.7	3.9	B1/500		
BM (30°-60°)	466.1	7.6	B1/1000		
BH (60°-80°)	275.8	4.5	B1/500		G1/500
BVH (80°-90°)	34.7	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°	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8
2.5°	2157.8	2113.9	2040.9	1964.9	1918.6	1864.5	1822.3	1785.2	1710.8	1696.3	1709.5
5°	2029.1	1940.9	1803.4	1664.9	1572.6	1473.6	1396.5	1334.7	1240.4	1223.9	1243.8
7.5°	1822.7	1717.2	1535.4	1358.7	1228.3	1104.6	1021.5	955.2	881.6	849.9	851.8
10°	1644.6	1525.6	1310.7	1118.5	1011.7	928.2	858.3	790.3	715.7	666.7	653.2
12.5°	1544.9	1408.1	1160.3	988.7	889.7	801.9	726.5	653.9	574.1	524.1	509.9
15°	1527.7	1378.9	1104.0	905.6	781.5	670.4	581.5	500.4	418.3	377.8	369.3
17.5°	1602.4	1431.0	1085.7	831.6	679.9	542.7	433.5	343.0	276.1	255.8	254.1
20°	1745.6	1531.1	1083.3	762.0	579.5	418.7	302.1	236.2	206.8	201.0	201.4
22.5°	1946.7	1686.1	1112.4	709.6	487.2	312.2	227.1	197.6	186.2	180.8	180.8
25°	2206.8	1899.7	1179.3	671.5	407.1	249.4	200.4	182.8	172.0	168.3	169.0
27.5°	2459.0	2107.5	1257.0	641.4	354.8	226.4	189.9	174.0	164.6	160.8	162.5
30°	2655.6	2292.0	1321.9	600.5	328.1	219.9	193.6	177.4	163.9	158.1	158.5
32.5°	2818.4	2453.5	1376.3	571.0	304.4	188.5	166.9	159.8	158.1	151.4	148.0
35°	3026.6	2629.6	1412.8	571.7	293.3	168.3	148.6	136.2	127.1	119.3	119.3
37.5°	3270.6	2831.6	1451.7	579.5	289.3	156.4	142.3	129.7	121.3	113.9	112.5
40°	3511.8	3029.7	1487.2	587.0	286.8	149.4	137.2	125.7	117.9	110.5	108.4
42.5°	3717.0	3192.5	1518.9	590.7	278.8	148.6	133.5	123.0	115.6	107.4	105.5
45°	3868.7	3329.0	1553.0	596.4	270.7	151.4	133.5	122.7	113.5	105.8	103.7
47.5°	4004.1	3489.2	1610.1	596.4	260.9	146.3	137.9	123.0	113.2	105.1	103.4
50°	4185.6	3708.8	1718.3	582.6	247.0	140.9	145.3	121.6	110.2	103.7	101.7
52.5°	4435.6	3990.3	1889.9	558.5	225.8	130.4	144.2	121.0	107.1	100.4	98.0
55°	4731.4	4291.7	2077.1	530.5	194.0	123.0	139.2	119.3	103.7	96.3	93.9
57.5°	4962.1	4499.1	2208.9	487.2	166.2	119.0	123.4	117.6	99.6	91.9	89.9
60°	5054.0	4491.1	2245.1	429.4	152.7	115.6	107.8	131.8	96.3	88.5	86.1
62.5°	5004.4	4283.6	2143.7	388.9	149.7	111.2	101.1	121.9	93.6	86.1	82.8
65°	4774.9	3916.0	1875.1	378.1	158.5	106.8	96.7	95.6	89.9	82.8	79.4
67.5°	4275.1	3366.5	1501.3	379.1	169.6	102.4	92.3	87.6	84.8	79.1	76.0
70°	3482.1	2661.7	1119.1	381.9	175.3	97.3	87.6	82.4	79.4	73.7	71.6
72.5°	2560.3	2051.4	813.0	364.3	176.4	91.6	81.1	76.7	73.7	67.6	65.9
75°	1751.7	1569.2	564.0	301.8	153.7	83.5	74.0	70.0	67.9	60.5	59.4
77.5°	1279.6	1177.9	360.9	224.0	118.6	73.3	65.3	62.2	60.9	52.7	51.4
80°	1026.9	931.9	225.8	153.4	86.8	61.5	54.7	53.1	51.7	43.6	42.6
82.5°	712.3	624.1	145.0	99.6	65.3	47.7	43.3	42.6	40.5	33.1	32.1
85°	375.7	338.9	91.9	67.9	47.3	32.7	30.1	30.1	29.1	22.0	21.3
87.5°	48.0	78.1	46.6	35.5	26.0	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°	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8
2.5°	1678.4	1694.6	1679.1	1680.1	1697.3	1748.6	1772.0	1791.2	1811.9	1825.4	1831.4
5°	1216.5	1254.3	1267.1	1294.1	1334.0	1399.6	1425.6	1444.5	1457.1	1464.5	1467.5
7.5°	832.0	854.9	880.6	924.1	1011.0	1049.5	1066.7	1062.3	1048.2	1043.1	1038.1
10°	627.2	618.1	613.3	637.3	707.6	746.4	758.6	746.8	739.0	740.7	749.1
12.5°	485.9	470.0	450.8	448.1	494.4	529.2	536.9	537.6	551.8	564.3	582.9
15°	354.1	352.4	343.0	337.3	363.6	392.0	395.4	401.4	414.3	423.4	439.6
17.5°	249.7	258.8	266.3	270.0	289.9	310.2	306.5	303.4	301.1	301.1	308.8
20°	201.4	207.5	217.0	227.7	248.1	262.2	253.1	240.9	232.1	229.4	230.5
22.5°	181.5	186.2	191.6	201.0	219.3	229.1	219.3	210.5	201.7	198.7	197.6
25°	171.3	177.4	182.5	189.6	203.1	209.8	200.4	194.0	188.5	184.8	182.1
27.5°	165.6	170.9	172.4	175.7	187.2	193.2	188.5	185.9	182.5	179.1	175.7
30°	159.5	158.5	156.1	156.4	165.6	171.7	171.3	172.0	171.7	170.6	170.0
32.5°	145.7	143.6	141.6	143.6	152.0	157.4	157.8	159.2	159.2	158.9	161.5
35°	121.3	125.0	127.4	133.5	143.6	148.3	146.3	142.9	136.9	133.1	132.8
37.5°	112.2	112.8	116.9	125.3	136.6	140.9	137.9	130.1	126.0	125.3	126.3
40°	107.8	108.4	110.8	118.6	129.7	134.1	131.4	125.7	121.9	121.6	123.4
42.5°	104.8	105.5	106.8	112.2	121.3	126.7	127.1	123.0	118.6	119.0	120.6
45°	103.0	103.4	103.0	105.8	114.2	120.6	123.4	120.6	116.9	117.6	119.6
47.5°	102.7	101.7	100.4	101.1	109.9	116.2	119.6	118.6	116.9	117.6	119.3
50°	101.4	99.0	97.3	97.0	105.8	112.5	115.6	115.6	116.2	117.6	119.3
52.5°	97.3	94.6	94.6	93.6	103.0	109.5	111.5	111.8	112.8	115.2	117.6
55°	92.3	91.2	92.3	90.5	101.1	107.1	108.1	108.8	109.5	111.5	114.9
57.5°	87.9	86.5	88.9	88.2	99.3	104.8	104.8	106.1	106.1	108.8	111.5
60°	85.5	82.8	83.8	84.5	97.0	102.7	102.1	103.4	104.0	106.5	108.4
62.5°	82.4	80.1	80.1	81.7	94.3	99.6	99.3	100.4	103.0	103.7	105.8
65°	78.8	77.7	76.7	78.8	91.6	96.3	96.7	98.0	100.4	101.1	102.7
67.5°	75.0	75.4	73.3	75.4	89.2	92.9	92.9	95.6	96.7	98.0	99.6
70°	71.0	71.3	69.6	72.0	87.6	89.2	88.9	92.6	93.3	94.3	96.0
72.5°	65.9	65.9	65.3	68.6	84.8	85.5	84.8	87.9	88.2	89.2	89.9
75°	60.5	60.5	59.8	64.5	83.2	81.4	79.4	81.7	82.4	83.2	83.2
77.5°	53.4	54.1	54.1	59.8	77.3	79.8	72.9	74.4	75.4	75.7	74.7
80°	44.6	46.3	47.0	54.4	64.9	73.7	65.3	66.2	66.6	66.6	65.3
82.5°	34.2	37.1	38.9	47.0	49.7	61.8	56.8	57.8	56.8	54.7	54.1
85°	23.6	27.7	29.8	35.8	37.5	47.7	47.3	47.3	45.3	42.6	42.2
87.5°	12.9	15.2	16.6	21.3	25.7	32.1	34.8	33.8	32.1	30.4	30.8
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8
2.5°	1863.2	1909.1	1982.5	2038.5	2095.0	2149.4	2208.2	2253.2	2291.3	2306.2	2351.5
5°	1498.3	1555.7	1625.0	1750.0	1838.5	1936.1	2049.1	2198.4	2255.8	2335.3	2465.3
7.5°	1059.4	1111.3	1222.8	1323.9	1449.3	1587.5	1739.8	1946.0	2021.4	2148.7	2360.6
10°	791.0	851.5	941.0	1026.2	1136.7	1278.0	1453.0	1683.5	1775.0	1913.2	2157.2
12.5°	637.3	708.6	803.5	883.6	969.1	1068.8	1238.8	1491.5	1614.2	1735.1	1981.8
15°	489.6	564.3	652.5	754.2	848.4	955.9	1134.0	1410.4	1551.6	1677.7	1888.2
17.5°	338.9	402.7	513.9	620.0	740.7	878.2	1105.0	1427.6	1596.2	1741.6	1904.4
20°	240.3	276.7	368.0	491.0	641.4	814.0	1099.6	1518.2	1737.5	1903.4	2008.5
22.5°	202.0	215.5	268.6	381.5	555.2	766.0	1118.5	1645.2	1928.1	2139.9	2174.4
25°	184.1	192.3	219.9	299.4	478.4	731.2	1182.3	1834.5	2164.0	2376.5	2370.4
27.5°	174.3	182.8	201.0	252.8	420.7	709.6	1246.2	2058.9	2433.6	2633.3	2557.6
30°	171.3	182.8	202.0	238.2	379.5	675.5	1298.5	2255.8	2641.1	2806.7	2642.8
32.5°	169.0	170.6	179.4	205.4	340.2	635.6	1334.0	2432.6	2844.1	2971.6	2765.4
35°	136.6	145.0	159.2	184.1	317.3	611.6	1334.0	2585.0	3044.2	3138.1	2882.4
37.5°	131.4	138.9	151.4	172.7	304.4	599.8	1307.3	2732.0	3248.6	3327.0	2978.6
40°	128.8	134.8	146.7	163.9	299.0	586.3	1268.5	2861.7	3448.3	3516.2	3068.5
42.5°	126.7	132.2	143.3	158.5	292.0	571.4	1237.1	2965.7	3621.7	3677.7	3154.4
45°	125.7	131.4	143.6	161.2	277.7	551.8	1226.6	3078.3	3764.3	3812.5	3247.3
47.5°	125.7	132.5	145.3	166.9	260.9	531.5	1259.4	3226.7	3899.1	3922.7	3356.7
50°	124.7	132.2	150.1	161.2	236.2	505.8	1336.4	3413.5	4045.1	4047.7	3495.3
52.5°	122.7	131.4	161.5	157.8	207.8	472.1	1440.5	3653.5	4261.0	4277.2	3712.2
55°	120.3	130.4	158.5	150.1	184.5	431.9	1525.6	3945.0	4564.4	4609.3	4031.2
57.5°	117.2	129.1	153.4	139.2	169.3	380.1	1556.4	4158.6	4776.3	4889.1	4390.7
60°	114.6	128.1	138.5	132.8	159.8	336.6	1496.9	4116.4	4761.7	5005.0	4709.4
62.5°	111.8	129.1	126.3	128.8	155.4	308.5	1341.5	3778.1	4520.8	4885.4	4945.6
65°	108.8	120.0	119.3	125.3	154.5	297.4	1112.0	3270.9	4055.2	4507.3	5001.3
67.5°	104.8	110.8	114.2	121.0	157.8	287.6	897.4	2698.1	3408.1	3940.6	4710.7
70°	100.4	105.5	109.1	115.6	155.8	283.2	746.4	2127.7	2704.3	3229.7	4137.3
72.5°	94.6	99.0	102.4	108.4	153.7	280.8	630.5	1713.5	2019.0	2399.1	3363.9
75°	87.9	91.9	94.3	100.4	147.3	257.2	495.7	1449.9	1510.8	1668.9	2679.2
77.5°	80.1	83.2	85.1	91.9	130.4	213.9	358.5	1118.5	1173.2	1211.7	2054.1
80°	71.0	74.0	75.0	81.4	108.1	167.3	233.8	826.1	877.5	886.3	1341.5
82.5°	60.5	63.5	63.5	69.6	88.5	120.3	153.4	566.0	576.1	605.9	948.2
85°	48.7	51.0	51.0	54.1	68.6	89.9	105.5	284.2	281.1	321.0	821.4
87.5°	34.8	36.5	38.2	38.9	49.0	59.4	63.5	86.5	57.1	65.6	527.4
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°	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8
2.5°	2385.6	2404.9	2385.2	2371.1	2309.9	2259.6	2192.3	2157.8
5°	2564.3	2613.3	2596.8	2537.3	2409.6	2265.9	2102.8	2029.1
7.5°	2542.7	2656.6	2659.3	2548.2	2359.9	2148.4	1927.4	1822.7
10°	2374.5	2520.0	2561.7	2453.9	2254.2	2017.7	1764.2	1644.6
12.5°	2186.6	2329.2	2361.0	2323.7	2156.9	1919.3	1662.2	1544.9
15°	2032.8	2096.7	2134.5	2167.0	2073.4	1880.1	1656.4	1527.7
17.5°	1939.2	1932.1	1943.0	1999.4	2015.2	1925.0	1744.2	1602.4
20°	1905.5	1797.0	1794.3	1872.0	1987.9	2032.2	1915.9	1745.6
22.5°	1924.1	1748.3	1726.0	1818.3	2002.4	2186.6	2140.9	1946.7
25°	1988.2	1752.4	1734.4	1823.7	2055.1	2351.2	2383.9	2206.8
27.5°	2089.3	1778.1	1754.4	1846.0	2125.1	2489.4	2623.2	2459.0
30°	2185.2	1822.7	1793.2	1889.9	2188.9	2544.1	2769.8	2655.6
32.5°	2301.8	1906.2	1854.4	1970.6	2268.0	2631.2	2900.6	2818.4
35°	2416.0	2025.0	1960.9	2095.3	2356.2	2739.8	3049.9	3026.6
37.5°	2541.4	2180.5	2127.4	2256.5	2476.9	2842.1	3240.5	3270.6
40°	2675.2	2386.6	2323.7	2491.7	2664.1	2970.5	3439.6	3511.8
42.5°	2810.0	2615.4	2540.4	2710.6	2869.8	3097.2	3609.8	3717.0
45°	2964.4	2863.8	2828.3	3012.4	3067.5	3217.9	3735.5	3868.7
47.5°	3144.2	3145.6	3202.7	3276.3	3266.9	3354.4	3861.9	4004.1
50°	3354.1	3497.3	3623.4	3672.3	3472.3	3501.0	4037.3	4185.6
52.5°	3606.1	3918.0	4074.1	4042.0	3693.7	3680.1	4315.0	4435.6
55°	3921.4	4363.4	4518.5	4495.5	3948.1	3924.0	4661.1	4731.4
57.5°	4286.3	4794.9	4937.5	4834.1	4253.5	4191.7	4947.3	4962.1
60°	4607.0	5136.8	5261.9	5147.3	4561.7	4476.5	5126.0	5054.0
62.5°	4785.4	5252.8	5340.6	5217.3	4772.9	4779.9	5165.2	5004.4
65°	4705.7	4959.8	4988.1	4978.0	4718.5	4956.0	5024.3	4774.9
67.5°	4269.1	4219.1	4266.7	4332.6	4252.2	4724.2	4634.0	4275.1
70°	3500.0	3225.3	3320.3	3364.5	3401.0	4065.3	4022.0	3482.1
72.5°	2637.7	2259.6	2334.6	2325.5	2494.4	3260.8	3128.0	2560.3
75°	1868.9	1532.1	1541.5	1537.8	1740.6	2551.1	2265.0	1751.7
77.5°	1307.6	1110.0	1115.1	1136.0	1170.2	1924.1	1618.2	1279.6
80°	899.2	842.4	870.4	872.2	811.0	1292.5	1195.5	1026.9
82.5°	669.7	585.5	578.8	588.6	635.6	1047.2	918.7	712.3
85°	548.4	346.7	278.8	349.4	563.2	1037.1	610.3	375.7
87.5°	308.8	164.6	74.4	137.9	224.7	686.6	176.4	48.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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