

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: P269016

Luminaire Tested: **GLEON-AF-01-LED-E1-SLR-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269016
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-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 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: 5220.5 lumens
Efficiency: N/A
Efficacy: 77.9 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

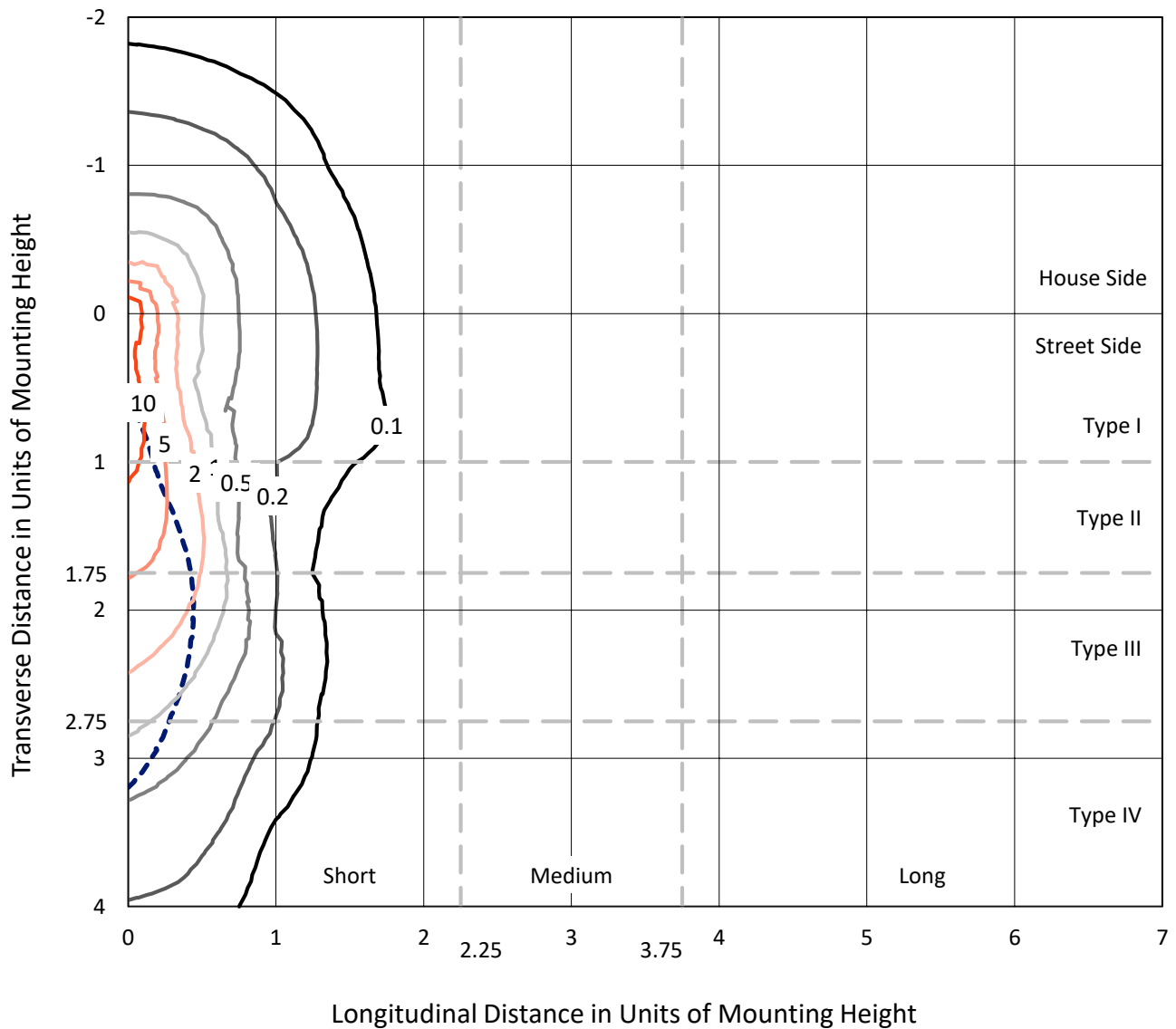


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

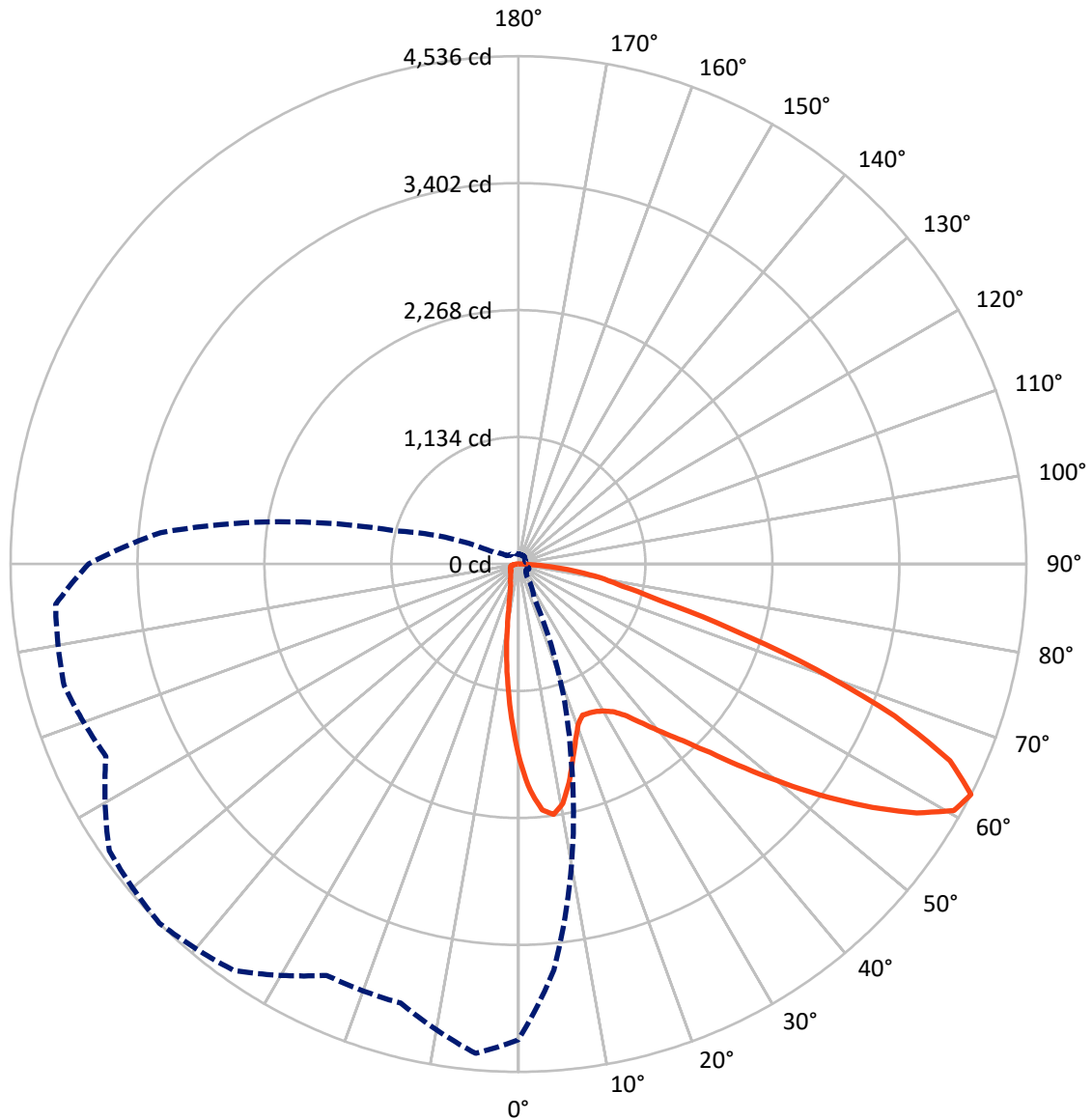


Based on 10 foot mounting height. Maximum calculated value = 17.6 fc
 Type IV - Short - Non-Cutoff

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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	863.9	0.0	863.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	4356.6	0.0	4356.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	5220.5	0.0	5220.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	2.5
10°-20°	235.4	4.5
20°-30°	343.3	6.6
30°-40°	528.7	10.1
40°-50°	778.1	14.9
50°-60°	1141.3	21.9
60°-70°	1275.8	24.4
70°-80°	624.6	12.0
80°-90°	164.9	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°	5220.5	100.0
0°-180°	5220.5	100.0



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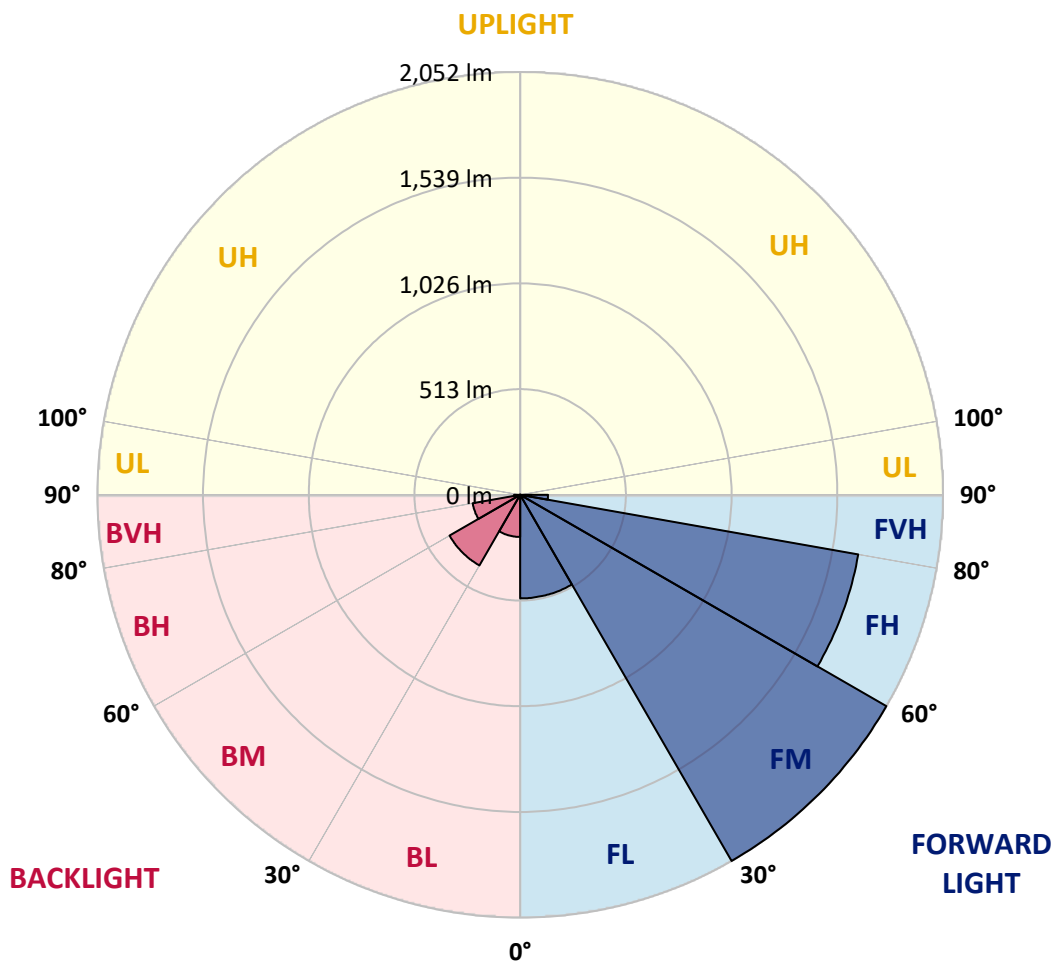
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	502.7	9.6			
FM (30°-60°)	2052.2	39.3			
FH (60°-80°)	1666.2	31.9			G1/1800
FVH (80°-90°)	135.4	2.6			G2/225
BL (0°-30°)	204.4	3.9	B1/500		
BM (30°-60°)	395.8	7.6	B1/1000		
BH (60°-80°)	234.2	4.5	B1/500		G1/500
BVH (80°-90°)	29.5	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°	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7
2.5°	1832.6	1795.4	1733.4	1668.8	1629.4	1583.5	1547.7	1516.1	1453.0	1440.6	1451.8
5°	1723.3	1648.4	1531.6	1413.9	1335.6	1251.5	1186.1	1133.7	1053.5	1039.3	1056.3
7.5°	1548.0	1458.4	1304.0	1154.0	1043.1	938.1	867.6	811.3	748.7	721.8	723.5
10°	1396.8	1295.7	1113.2	949.9	859.1	788.4	729.0	671.3	607.9	566.2	554.8
12.5°	1312.1	1195.9	985.5	839.6	755.7	680.9	617.0	555.3	487.6	445.1	433.1
15°	1297.4	1171.2	937.6	769.0	663.8	569.3	493.9	425.0	355.3	320.9	313.7
17.5°	1360.8	1215.3	922.1	706.2	577.4	460.9	368.1	291.3	234.5	217.2	215.9
20°	1482.6	1300.2	920.0	647.0	492.2	355.5	256.6	200.6	175.6	170.8	171.0
22.5°	1653.3	1432.0	944.7	602.7	413.8	265.2	192.9	167.9	158.1	153.5	153.5
25°	1874.3	1613.4	1001.6	570.2	345.8	211.8	170.1	155.2	146.1	142.9	143.5
27.5°	2088.3	1790.0	1067.5	544.7	301.3	192.2	161.2	147.9	139.7	136.6	138.0
30°	2255.4	1946.5	1122.6	510.0	278.7	186.8	164.4	150.6	139.1	134.2	134.6
32.5°	2393.7	2083.8	1168.9	484.9	258.5	160.2	141.8	135.7	134.2	128.5	125.8
35°	2570.5	2233.2	1199.9	485.5	249.1	142.9	126.3	115.6	107.8	101.2	101.2
37.5°	2777.6	2404.9	1232.8	492.2	245.6	132.9	120.8	110.2	103.0	96.7	95.6
40°	2982.6	2573.0	1262.9	498.5	243.6	126.8	116.5	106.8	100.2	93.9	92.2
42.5°	3156.7	2711.4	1290.0	501.7	236.8	126.3	113.4	104.5	98.2	91.3	89.6
45°	3285.6	2827.3	1318.9	506.6	229.8	128.5	113.4	104.2	96.4	89.8	88.2
47.5°	3400.8	2963.2	1367.5	506.6	221.5	124.2	117.0	104.5	96.2	89.2	87.9
50°	3554.9	3149.8	1459.2	494.7	209.8	119.7	123.3	103.3	93.6	88.2	86.3
52.5°	3767.1	3388.9	1605.1	474.3	191.7	110.9	122.6	102.8	91.0	85.2	83.3
55°	4018.3	3645.0	1764.0	450.6	164.7	104.5	118.2	101.2	88.2	81.7	79.8
57.5°	4214.3	3821.1	1876.0	413.8	141.3	101.0	104.7	99.9	84.7	78.1	76.4
60°	4292.3	3814.3	1906.7	364.7	129.7	98.2	91.5	111.8	81.7	75.2	73.2
62.5°	4250.2	3638.0	1820.5	330.2	127.1	94.4	85.8	103.7	79.5	73.2	70.2
65°	4055.3	3325.7	1592.4	321.1	134.6	90.6	82.0	81.1	76.4	70.2	67.5
67.5°	3630.9	2859.1	1275.1	322.0	144.1	87.0	78.3	74.3	72.0	67.2	64.6
70°	2957.3	2260.6	950.4	324.3	148.9	82.6	74.3	70.0	67.5	62.5	60.8
72.5°	2174.4	1742.3	690.4	309.3	149.7	77.8	68.9	65.1	62.5	57.4	56.0
75°	1487.8	1332.7	478.9	256.2	130.6	70.8	62.8	59.4	57.8	51.4	50.6
77.5°	1086.8	1000.4	306.5	190.4	100.7	62.3	55.3	52.8	51.7	44.7	43.6
80°	872.2	791.4	191.7	130.3	73.8	52.2	46.5	45.0	43.8	37.0	36.1
82.5°	605.0	530.0	123.1	84.7	55.3	40.5	36.7	36.1	34.5	28.1	27.3
85°	319.1	287.8	78.1	57.8	40.2	27.8	25.5	25.5	24.7	18.7	18.1
87.5°	40.8	66.3	39.6	30.2	22.1	12.3	12.3	12.0	12.9	10.6	9.3
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°	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7
2.5°	1425.4	1439.2	1426.0	1426.9	1441.5	1485.1	1504.9	1521.3	1538.7	1550.2	1555.4
5°	1033.1	1065.3	1076.2	1099.2	1133.0	1188.6	1210.7	1226.8	1237.4	1243.8	1246.4
7.5°	706.5	726.1	747.8	784.8	858.6	891.4	906.0	902.3	890.2	885.9	881.5
10°	532.6	524.9	520.8	541.3	601.0	633.9	644.3	634.3	627.6	629.1	636.2
12.5°	412.7	399.1	382.9	380.5	419.9	449.4	456.0	456.6	468.6	479.2	495.1
15°	300.8	299.3	291.3	286.4	308.7	332.9	335.7	340.9	351.9	359.6	373.3
17.5°	212.1	219.8	226.2	229.2	246.2	263.5	260.2	257.8	255.7	255.7	262.2
20°	171.0	176.2	184.2	193.4	210.7	222.7	215.0	204.6	197.2	194.8	195.7
22.5°	154.1	158.1	162.8	170.8	186.3	194.6	186.3	178.9	171.3	168.7	167.9
25°	145.4	150.6	155.0	160.9	172.5	178.3	170.1	164.7	160.2	156.9	154.7
27.5°	140.7	145.3	146.3	149.2	159.0	164.1	160.2	157.8	155.0	152.2	149.2
30°	135.5	134.6	132.6	132.9	140.7	145.7	145.4	146.1	145.7	144.9	144.4
32.5°	123.6	122.0	120.3	122.0	129.1	133.8	133.9	135.1	135.1	134.8	137.3
35°	103.0	106.2	108.2	113.4	122.0	126.0	124.2	121.5	116.2	113.0	112.7
37.5°	95.3	95.8	99.4	106.4	115.9	119.7	117.0	110.5	107.1	106.4	107.3
40°	91.5	92.2	94.1	100.7	110.2	113.9	111.6	106.8	103.7	103.3	104.7
42.5°	88.9	89.6	90.6	95.3	103.0	107.5	107.8	104.5	100.7	101.0	102.4
45°	87.6	87.9	87.6	89.8	96.9	102.4	104.7	102.4	99.4	99.9	101.6
47.5°	87.2	86.3	85.2	85.8	93.2	98.8	101.6	100.7	99.4	99.9	101.2
50°	86.1	84.1	82.6	82.4	89.8	95.6	98.2	98.2	98.8	99.9	101.2
52.5°	82.6	80.4	80.4	79.5	87.6	93.0	94.7	95.0	95.8	97.8	99.9
55°	78.3	77.4	78.3	77.0	85.8	91.0	91.8	92.4	93.0	94.7	97.6
57.5°	74.6	73.5	75.5	74.9	84.4	88.9	88.9	90.1	90.1	92.4	94.7
60°	72.7	70.2	71.1	71.8	82.4	87.2	86.6	87.9	88.5	90.4	92.2
62.5°	70.0	68.0	68.0	69.4	80.0	84.7	84.4	85.2	87.6	88.2	89.8
65°	66.8	66.0	65.1	66.8	77.8	81.7	82.0	83.3	85.2	85.8	87.2
67.5°	63.7	64.0	62.3	64.0	75.7	79.0	79.0	81.1	82.0	83.3	84.7
70°	60.2	60.5	59.1	61.2	74.3	75.7	75.5	78.6	79.2	80.0	81.4
72.5°	56.0	56.0	55.3	58.3	72.0	72.7	72.0	74.6	74.9	75.7	76.4
75°	51.4	51.4	50.8	54.7	70.5	69.2	67.5	69.4	70.0	70.5	70.5
77.5°	45.4	46.0	46.0	50.8	65.8	67.7	62.1	63.2	64.0	64.3	63.4
80°	37.9	39.3	39.9	46.3	55.1	62.5	55.3	56.2	56.6	56.6	55.3
82.5°	28.9	31.6	33.0	39.9	42.2	52.6	48.1	49.0	48.1	46.5	46.0
85°	20.1	23.5	25.2	30.5	31.9	40.5	40.2	40.2	38.4	36.1	35.8
87.5°	10.9	12.9	14.1	18.1	21.7	27.3	29.6	28.7	27.3	25.8	26.1
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°	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7
2.5°	1582.5	1621.4	1683.8	1731.4	1779.3	1825.4	1875.4	1913.6	1946.0	1958.7	1997.1
5°	1272.4	1321.2	1380.1	1486.2	1561.4	1644.3	1740.2	1867.0	1915.8	1983.3	2093.8
7.5°	899.7	943.8	1038.6	1124.4	1230.9	1348.3	1477.6	1652.7	1716.8	1824.8	2004.8
10°	671.8	723.1	799.2	871.5	965.4	1085.3	1234.0	1429.7	1507.4	1624.9	1832.1
12.5°	541.3	601.8	682.4	750.4	823.0	907.6	1052.0	1266.7	1371.0	1473.6	1683.2
15°	415.8	479.2	554.2	640.5	720.6	811.9	963.2	1197.8	1317.9	1424.8	1603.7
17.5°	287.8	342.1	436.4	526.5	629.1	745.9	938.4	1212.5	1355.7	1479.1	1617.4
20°	204.1	235.0	312.5	417.0	544.7	691.3	933.8	1289.3	1475.6	1616.5	1705.8
22.5°	171.7	183.1	228.2	324.0	471.5	650.6	949.9	1397.4	1637.5	1817.5	1846.6
25°	156.5	163.3	186.8	254.3	406.4	621.0	1004.1	1558.0	1837.8	2018.3	2013.1
27.5°	148.1	155.2	170.8	214.7	357.3	602.7	1058.4	1748.6	2066.8	2236.4	2172.1
30°	145.4	155.2	171.7	202.3	322.3	573.7	1102.8	1915.8	2243.0	2383.7	2244.4
32.5°	143.5	144.9	152.4	174.5	289.0	539.8	1133.0	2065.9	2415.5	2523.7	2348.6
35°	115.9	123.1	135.1	156.5	269.5	519.4	1133.0	2195.4	2585.4	2665.1	2447.9
37.5°	111.6	117.9	128.5	146.7	258.5	509.3	1110.3	2320.2	2759.1	2825.6	2529.6
40°	109.4	114.5	124.5	139.1	254.0	497.9	1077.2	2430.5	2928.7	2986.2	2606.1
42.5°	107.5	112.2	121.7	134.6	247.9	485.3	1050.6	2518.8	3075.8	3123.4	2678.9
45°	106.8	111.6	122.0	136.9	235.9	468.6	1041.8	2614.3	3197.0	3238.0	2757.8
47.5°	106.8	112.5	123.3	141.8	221.5	451.4	1069.5	2740.4	3311.4	3331.5	2850.9
50°	105.9	112.2	127.4	136.9	200.6	429.6	1135.0	2899.0	3435.4	3437.8	2968.4
52.5°	104.2	111.6	137.3	133.9	176.4	401.0	1223.4	3102.7	3618.8	3632.6	3152.7
55°	102.1	110.9	134.6	127.4	156.7	366.8	1295.7	3350.5	3876.5	3914.6	3423.6
57.5°	99.6	109.7	130.3	118.2	143.8	322.9	1321.9	3531.9	4056.4	4152.2	3729.0
60°	97.2	108.8	117.7	112.7	135.7	285.8	1271.3	3495.9	4044.1	4250.7	3999.7
62.5°	95.0	109.7	107.3	109.4	132.1	262.0	1139.3	3208.7	3839.4	4149.1	4200.3
65°	92.4	101.9	101.2	106.4	131.2	252.6	944.5	2778.0	3444.0	3827.9	4247.5
67.5°	88.9	94.1	96.9	102.8	133.9	244.2	762.2	2291.5	2894.5	3346.7	4000.7
70°	85.2	89.6	92.6	98.2	132.3	240.4	633.9	1807.1	2296.6	2743.0	3513.8
72.5°	80.4	84.1	87.0	92.2	130.6	238.5	535.5	1455.3	1714.7	2037.5	2856.9
75°	74.6	78.1	80.0	85.2	125.1	218.4	420.9	1231.4	1283.0	1417.3	2275.4
77.5°	68.0	70.5	72.4	78.1	110.9	181.6	304.4	949.9	996.4	1029.1	1744.6
80°	60.2	62.8	63.7	69.2	91.8	142.0	198.5	701.7	745.2	752.7	1139.3
82.5°	51.4	54.0	54.0	59.1	75.2	102.1	130.3	480.8	489.2	514.5	805.3
85°	41.3	43.4	43.4	46.0	58.3	76.4	89.6	241.4	238.8	272.6	697.7
87.5°	29.6	31.0	32.3	33.0	41.6	50.6	54.0	73.5	48.5	55.7	448.0
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7	1763.7
2.5°	2026.0	2042.4	2025.8	2013.7	1961.8	1919.0	1861.8	1832.6
5°	2177.9	2219.5	2205.3	2154.9	2046.5	1924.4	1785.9	1723.3
7.5°	2159.5	2256.3	2258.5	2164.0	2004.3	1824.5	1636.9	1548.0
10°	2016.5	2140.3	2175.5	2084.1	1914.5	1713.5	1498.4	1396.8
12.5°	1857.1	1978.2	2005.0	1973.5	1831.7	1630.1	1411.6	1312.1
15°	1726.5	1780.7	1812.8	1840.4	1760.9	1596.7	1406.7	1297.4
17.5°	1647.0	1640.9	1650.1	1698.1	1711.5	1634.9	1481.3	1360.8
20°	1618.2	1526.1	1523.9	1589.9	1688.3	1725.9	1627.2	1482.6
22.5°	1634.0	1484.8	1465.9	1544.2	1700.6	1857.1	1818.3	1653.3
25°	1688.5	1488.2	1473.1	1548.8	1745.3	1996.8	2024.6	1874.3
27.5°	1774.4	1510.1	1490.0	1567.7	1804.9	2114.3	2227.7	2088.3
30°	1855.9	1548.0	1522.9	1605.1	1859.0	2160.7	2352.3	2255.4
32.5°	1954.9	1618.8	1575.0	1673.6	1926.1	2234.8	2463.4	2393.7
35°	2051.9	1719.8	1665.4	1779.5	2001.2	2326.8	2590.3	2570.5
37.5°	2158.4	1851.9	1806.9	1916.4	2103.6	2413.7	2752.0	2777.6
40°	2272.1	2026.9	1973.5	2116.1	2262.6	2522.8	2921.2	2982.6
42.5°	2386.4	2221.1	2157.5	2302.1	2437.3	2630.4	3065.7	3156.7
45°	2517.7	2432.2	2402.0	2558.5	2605.2	2733.0	3172.5	3285.6
47.5°	2670.3	2671.5	2720.0	2782.5	2774.5	2848.9	3279.9	3400.8
50°	2848.5	2970.2	3077.2	3118.8	2949.0	2973.4	3428.8	3554.9
52.5°	3062.6	3327.5	3460.1	3432.9	3136.9	3125.5	3664.7	3767.1
55°	3330.3	3705.8	3837.5	3817.9	3353.1	3332.7	3958.7	4018.3
57.5°	3640.3	4072.2	4193.3	4105.6	3612.4	3560.0	4201.6	4214.3
60°	3912.7	4362.7	4468.8	4371.5	3874.2	3801.8	4353.5	4292.3
62.5°	4064.2	4461.1	4535.7	4430.9	4053.5	4059.6	4386.8	4250.2
65°	3996.5	4212.2	4236.3	4227.8	4007.3	4209.1	4267.0	4055.3
67.5°	3625.6	3583.2	3623.7	3679.6	3611.4	4012.2	3935.7	3630.9
70°	2972.5	2739.2	2819.8	2857.5	2888.4	3452.6	3415.9	2957.3
72.5°	2240.2	1919.0	1982.6	1975.0	2118.5	2769.4	2656.6	2174.4
75°	1587.2	1301.1	1309.2	1306.0	1478.3	2166.7	1923.6	1487.8
77.5°	1110.7	942.7	947.1	964.8	993.9	1634.0	1374.3	1086.8
80°	763.6	715.4	739.2	740.7	688.7	1097.6	1015.4	872.2
82.5°	568.7	497.3	491.6	499.8	539.8	889.3	780.3	605.0
85°	465.9	294.5	236.8	296.7	478.3	880.8	518.3	319.1
87.5°	262.2	139.7	63.2	117.0	190.8	583.1	149.7	40.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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