

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: P193069

Luminaire Tested: **GLEON-AF-01-LED-E1-SLR-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193069
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-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA 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: 5298 lumens
Efficiency: N/A
Efficacy: 89.8 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): 59
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

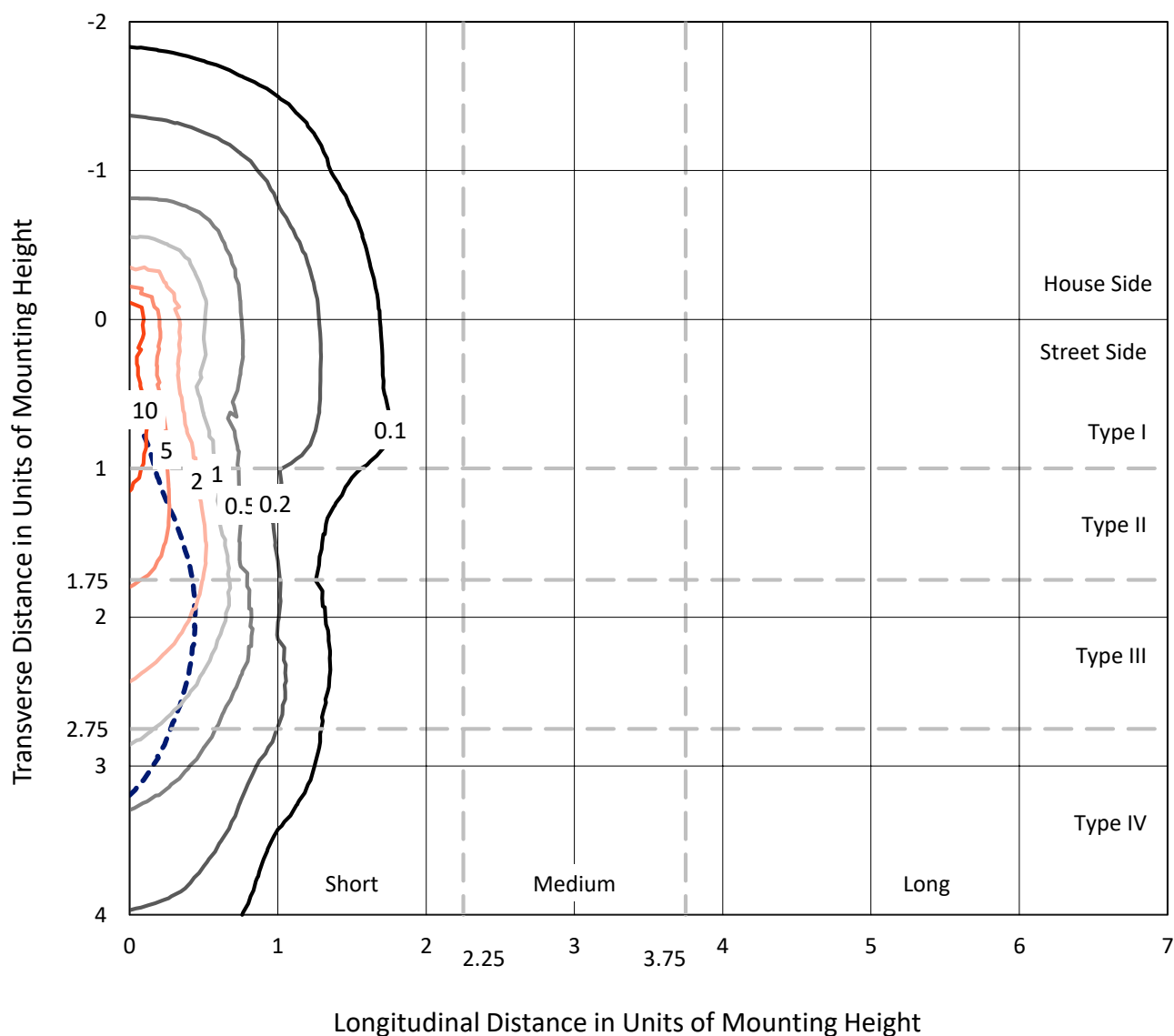


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

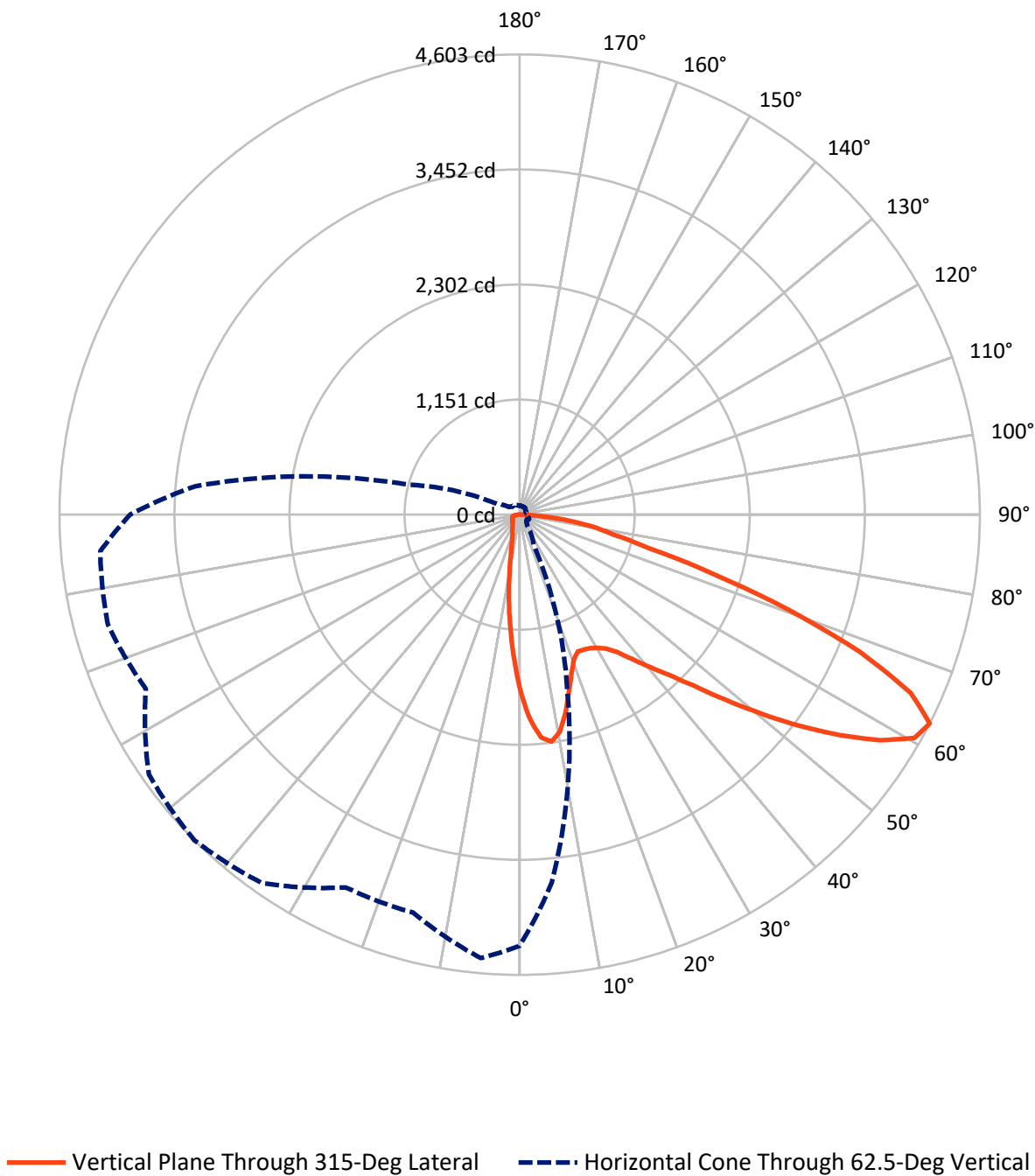


Based on 10 foot mounting height. Maximum calculated value = 17.9 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	876.7	0.0	876.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	4421.2	0.0	4421.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	5298.0	0.0	5298.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.3	2.5
10°-20°	238.9	4.5
20°-30°	348.4	6.6
30°-40°	536.5	10.1
40°-50°	789.6	14.9
50°-60°	1158.2	21.9
60°-70°	1294.7	24.4
70°-80°	633.9	12.0
80°-90°	167.4	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°	5298.0	100.0
0°-180°	5298.0	100.0

Coefficient of Utilization



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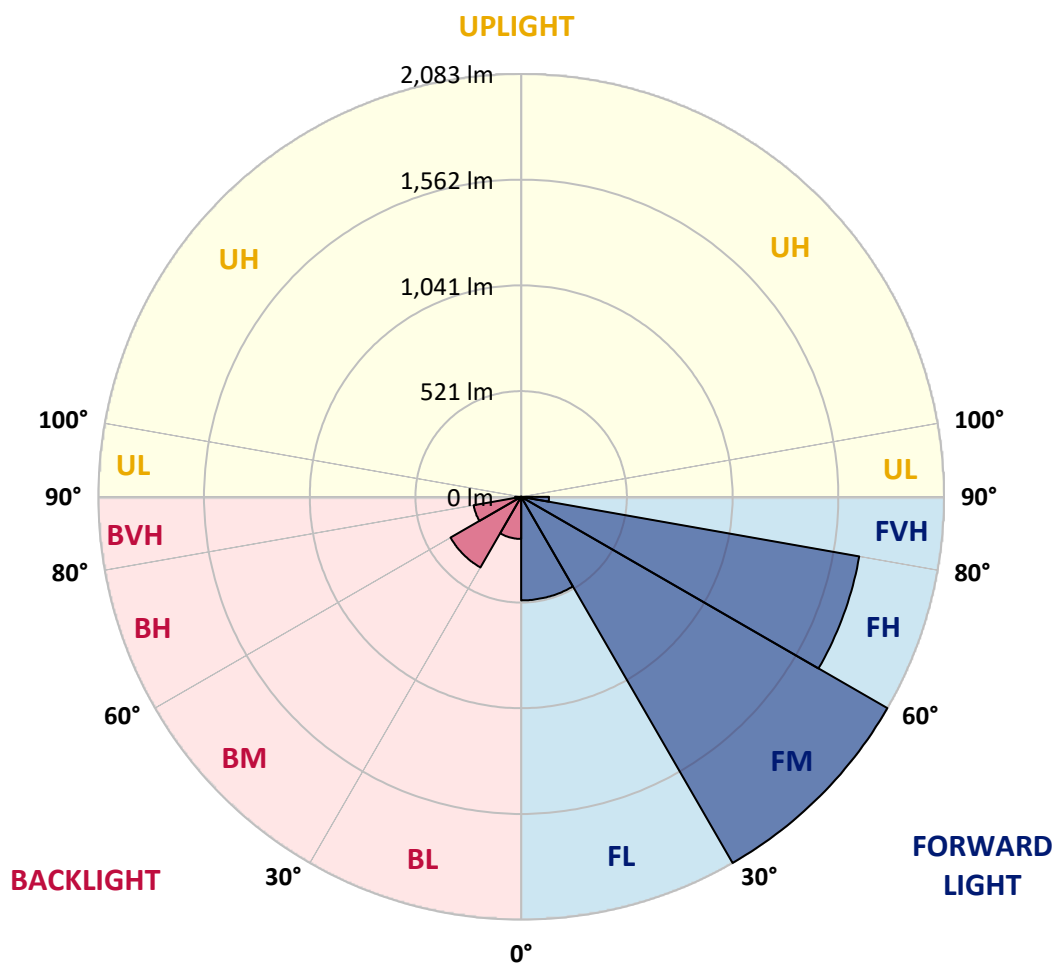
CATALOG NUMBER: GLEON-AF-01-LED-E1-SLR-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	510.2	9.6			
FM	(30°-60°)	2082.7	39.3			
FH	(60°-80°)	1690.9	31.9			G1/1800
FVH	(80°-90°)	137.4	2.6			G2/225
BL	(0°-30°)	207.4	3.9	B1/500		
BM	(30°-60°)	401.7	7.6	B1/1000		
BH	(60°-80°)	237.7	4.5	B1/500		G1/500
BVH	(80°-90°)	29.9	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°	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0
2.5°	1859.8	1822.0	1759.1	1693.5	1653.6	1607.1	1570.6	1538.6	1474.6	1462.0	1473.4
5°	1748.9	1672.9	1554.3	1434.9	1355.5	1270.1	1203.7	1150.4	1069.1	1054.9	1072.1
7.5°	1570.9	1480.0	1323.3	1171.0	1058.6	952.0	880.4	823.4	759.8	732.5	734.2
10°	1417.4	1314.9	1129.7	964.0	872.0	800.0	739.8	681.2	616.9	574.6	563.0
12.5°	1331.6	1213.6	1000.2	852.1	766.8	691.1	626.2	563.6	494.8	451.7	439.4
15°	1316.7	1188.5	951.4	780.5	673.6	577.8	501.2	431.3	360.5	325.6	318.3
17.5°	1381.0	1233.4	935.7	716.7	585.9	467.7	373.6	295.6	237.9	220.4	219.1
20°	1504.5	1319.7	933.7	656.7	499.5	360.9	260.4	203.5	178.2	173.2	173.6
22.5°	1677.7	1453.2	958.7	611.7	420.0	269.1	195.7	170.3	160.5	155.8	155.8
25°	1902.1	1637.4	1016.4	578.6	350.9	214.9	172.7	157.6	148.3	145.0	145.7
27.5°	2119.3	1816.4	1083.5	552.8	305.8	195.1	163.7	150.0	141.8	138.6	140.1
30°	2288.9	1975.4	1139.3	517.6	282.8	189.6	166.8	152.9	141.3	136.2	136.6
32.5°	2429.2	2114.7	1186.2	492.2	262.4	162.5	143.9	137.7	136.2	130.4	127.7
35°	2608.6	2266.4	1217.7	492.8	252.8	145.0	128.2	117.4	109.5	102.8	102.8
37.5°	2818.9	2440.6	1251.1	499.5	249.3	134.8	122.6	111.9	104.6	98.2	97.0
40°	3026.8	2611.2	1281.7	505.9	247.3	128.7	118.2	108.3	101.6	95.3	93.5
42.5°	3203.6	2751.5	1309.2	509.0	240.3	128.2	115.0	106.0	99.7	92.7	90.9
45°	3334.4	2869.2	1338.5	514.1	233.3	130.4	115.0	105.8	97.9	91.1	89.4
47.5°	3451.2	3007.4	1387.7	514.1	224.8	126.0	118.9	106.0	97.6	90.5	89.1
50°	3607.5	3196.6	1480.9	502.0	212.9	121.5	125.2	104.9	94.9	89.4	87.6
52.5°	3823.1	3439.3	1628.8	481.4	194.6	112.4	124.3	104.3	92.4	86.6	84.4
55°	4077.9	3699.0	1790.2	457.2	167.1	106.0	119.9	102.8	89.4	83.0	81.0
57.5°	4276.9	3877.8	1903.9	420.0	143.2	102.4	106.3	101.4	85.9	79.2	77.5
60°	4356.0	3870.8	1935.0	370.2	131.6	99.7	92.9	113.6	83.0	76.3	74.3
62.5°	4313.2	3692.0	1847.6	335.2	129.0	95.8	87.1	105.1	80.7	74.3	71.3
65°	4115.5	3375.1	1616.1	325.9	136.6	92.0	83.2	82.4	77.5	71.3	68.4
67.5°	3684.8	2901.6	1293.9	326.8	146.2	88.3	79.5	75.4	73.1	68.2	65.5
70°	3001.3	2294.1	964.5	329.1	151.1	83.9	75.4	71.0	68.4	63.5	61.7
72.5°	2206.7	1768.2	700.7	313.9	152.0	78.8	69.9	66.1	63.5	58.2	56.9
75°	1509.8	1352.5	486.1	260.0	132.5	71.9	63.8	60.3	58.6	52.1	51.3
77.5°	1102.9	1015.2	311.1	193.1	102.2	63.2	56.2	53.5	52.5	45.5	44.2
80°	885.1	803.3	194.6	132.2	74.9	53.0	47.2	45.7	44.6	37.5	36.7
82.5°	613.9	537.9	125.0	85.9	56.2	41.1	37.2	36.7	35.0	28.5	27.7
85°	323.9	292.2	79.2	58.6	40.8	28.3	25.9	25.9	25.0	18.9	18.3
87.5°	41.4	67.3	40.2	30.6	22.4	12.6	12.6	12.2	13.1	10.8	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°	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0
2.5°	1446.6	1460.6	1447.1	1448.0	1462.9	1507.1	1527.2	1543.9	1561.7	1573.3	1578.5
5°	1048.5	1081.1	1092.1	1115.4	1149.9	1206.3	1228.7	1245.0	1255.8	1262.3	1264.9
7.5°	717.1	736.9	759.0	796.5	871.4	904.5	919.4	915.7	903.5	899.1	894.8
10°	540.5	532.6	528.6	549.2	609.8	643.3	653.8	643.6	637.0	638.4	645.7
12.5°	418.8	405.2	388.5	386.2	426.1	456.0	462.8	463.4	475.6	486.3	502.4
15°	305.3	303.7	295.6	290.6	313.3	337.8	340.8	346.1	357.1	364.9	378.9
17.5°	215.2	223.1	229.5	232.7	249.8	267.3	264.2	261.5	259.5	259.5	266.1
20°	173.6	178.8	187.0	196.3	213.8	225.9	218.2	207.7	200.1	197.8	198.7
22.5°	156.3	160.5	165.1	173.2	189.0	197.4	189.0	181.5	173.8	171.2	170.3
25°	147.6	152.9	157.3	163.4	175.1	180.9	172.7	167.1	162.5	159.3	157.0
27.5°	142.7	147.4	148.5	151.5	161.3	166.6	162.5	160.2	157.3	154.4	151.5
30°	137.4	136.6	134.5	134.8	142.7	147.9	147.6	148.3	147.9	147.1	146.5
32.5°	125.5	123.8	122.1	123.8	131.1	135.7	136.0	137.1	137.1	136.9	139.2
35°	104.6	107.7	109.8	115.0	123.8	127.9	126.0	123.3	118.0	114.7	114.5
37.5°	96.7	97.2	100.7	108.0	117.7	121.5	118.9	112.1	108.6	108.0	108.9
40°	92.9	93.5	95.5	102.2	111.9	115.6	113.3	108.3	105.1	104.9	106.3
42.5°	90.2	90.9	92.0	96.7	104.6	109.3	109.5	106.0	102.2	102.4	104.1
45°	88.8	89.1	88.8	91.1	98.5	104.1	106.3	104.1	100.7	101.4	103.1
47.5°	88.5	87.6	86.6	87.1	94.6	100.2	103.1	102.2	100.7	101.4	102.8
50°	87.4	85.3	83.9	83.6	91.1	97.0	99.7	99.7	100.2	101.4	102.8
52.5°	83.9	81.5	81.5	80.7	88.8	94.4	96.1	96.3	97.2	99.3	101.4
55°	79.5	78.6	79.5	78.0	87.1	92.4	93.2	93.8	94.4	96.1	99.0
57.5°	75.7	74.6	76.6	76.1	85.7	90.2	90.2	91.4	91.4	93.8	96.1
60°	73.6	71.3	72.2	72.7	83.6	88.5	88.0	89.1	89.7	91.8	93.5
62.5°	71.0	69.1	69.1	70.5	81.3	85.9	85.7	86.6	88.8	89.4	91.1
65°	67.8	66.9	66.1	67.8	78.8	83.0	83.2	84.4	86.6	87.1	88.5
67.5°	64.7	64.9	63.2	64.9	76.9	80.1	80.1	82.4	83.2	84.4	85.9
70°	61.1	61.4	60.0	62.1	75.4	76.9	76.6	79.8	80.5	81.3	82.7
72.5°	56.9	56.9	56.2	59.1	73.1	73.6	73.1	75.7	76.1	76.9	77.5
75°	52.1	52.1	51.6	55.6	71.7	70.2	68.4	70.5	71.0	71.7	71.7
77.5°	46.0	46.6	46.6	51.6	66.6	68.8	63.0	64.0	64.9	65.2	64.4
80°	38.5	39.9	40.5	46.9	55.9	63.5	56.2	57.1	57.4	57.4	56.2
82.5°	29.4	32.0	33.6	40.5	42.8	53.3	48.9	49.8	48.9	47.2	46.6
85°	20.4	23.9	25.6	30.9	32.3	41.1	40.8	40.8	39.0	36.7	36.4
87.5°	11.0	13.1	14.3	18.3	22.2	27.7	30.0	29.2	27.7	26.2	26.6
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°	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0
2.5°	1605.9	1645.5	1708.7	1757.0	1805.6	1852.6	1903.2	1942.0	1974.9	1987.7	2026.8
5°	1291.3	1340.8	1400.6	1508.4	1584.6	1668.8	1766.0	1894.8	1944.3	2012.8	2124.9
7.5°	913.1	957.8	1054.1	1141.1	1249.2	1368.3	1499.6	1677.2	1742.1	1852.0	2034.6
10°	681.8	733.9	811.1	884.5	979.7	1101.5	1252.3	1451.0	1529.8	1648.9	1859.3
12.5°	549.2	610.8	692.6	761.5	835.3	921.2	1067.7	1285.6	1391.2	1495.5	1708.2
15°	422.0	486.3	562.3	650.1	731.3	824.0	977.5	1215.6	1337.4	1446.0	1627.4
17.5°	292.2	347.1	442.9	534.4	638.4	756.9	952.3	1230.5	1375.8	1501.0	1641.4
20°	207.0	238.5	317.2	423.2	552.8	701.6	947.8	1308.5	1497.5	1640.5	1731.1
22.5°	174.2	185.8	231.5	328.8	478.5	660.3	964.0	1418.0	1661.9	1844.4	1874.2
25°	158.8	165.7	189.6	258.1	412.4	630.2	1019.1	1581.1	1865.0	2048.3	2043.0
27.5°	150.2	157.6	173.2	217.9	362.6	611.7	1074.1	1774.5	2097.4	2269.7	2204.5
30°	147.6	157.6	174.2	205.3	327.0	582.2	1119.3	1944.3	2276.3	2419.0	2277.7
32.5°	145.7	147.1	154.6	177.1	293.3	547.8	1149.9	2096.5	2451.3	2561.1	2383.5
35°	117.7	125.0	137.1	158.8	273.4	527.1	1149.9	2228.1	2623.8	2704.7	2484.2
37.5°	113.3	119.7	130.4	148.8	262.4	516.9	1126.8	2354.6	2800.0	2867.5	2567.3
40°	111.0	116.3	126.4	141.3	257.8	505.4	1093.3	2466.5	2972.1	3030.7	2644.7
42.5°	109.3	113.8	123.5	136.6	251.7	492.4	1066.3	2556.2	3121.4	3169.8	2718.7
45°	108.3	113.3	123.8	138.9	239.4	475.6	1057.2	2653.2	3244.4	3286.1	2798.7
47.5°	108.3	114.1	125.2	143.9	224.8	458.2	1085.5	2780.9	3360.6	3380.9	2893.1
50°	107.5	113.8	129.4	138.9	203.5	436.0	1151.8	2942.1	3486.4	3488.7	3012.6
52.5°	105.8	113.3	139.2	136.0	179.0	406.9	1241.5	3148.9	3672.5	3686.5	3199.5
55°	103.7	112.4	136.6	129.4	159.0	372.2	1314.9	3400.1	3934.0	3972.7	3474.5
57.5°	101.1	111.2	132.2	119.9	145.9	327.7	1341.4	3584.2	4116.7	4213.9	3784.3
60°	98.8	110.4	119.4	114.5	137.7	290.1	1290.2	3547.8	4104.1	4313.8	4059.0
62.5°	96.3	111.2	108.9	111.0	134.0	265.9	1156.2	3256.4	3896.5	4210.8	4262.5
65°	93.8	103.4	102.8	108.0	133.1	256.3	958.4	2819.2	3495.1	3884.8	4310.6
67.5°	90.2	95.5	98.5	104.3	136.0	247.8	773.5	2325.5	2937.4	3396.5	4060.2
70°	86.6	90.9	94.1	99.7	134.3	244.0	643.3	1833.9	2330.7	2783.6	3565.9
72.5°	81.5	85.3	88.3	93.5	132.5	242.0	543.4	1476.8	1740.2	2067.7	2899.3
75°	75.7	79.2	81.3	86.6	127.0	221.6	427.2	1249.7	1302.2	1438.4	2309.2
77.5°	69.1	71.7	73.4	79.2	112.4	184.3	308.9	964.0	1011.2	1044.4	1770.4
80°	61.1	63.8	64.7	70.2	93.2	144.1	201.6	712.1	756.3	763.9	1156.2
82.5°	52.1	54.7	54.7	60.0	76.3	103.7	132.2	487.9	496.6	522.1	817.3
85°	41.9	43.9	43.9	46.6	59.1	77.5	90.9	245.0	242.3	276.7	708.0
87.5°	30.0	31.4	32.9	33.6	42.3	51.3	54.7	74.6	49.1	56.5	454.6
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°	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0	1790.0
2.5°	2056.1	2072.7	2055.8	2043.5	1990.9	1947.5	1889.5	1859.8
5°	2210.2	2252.4	2238.1	2187.0	2076.8	1953.0	1812.4	1748.9
7.5°	2191.5	2289.7	2292.0	2196.2	2034.0	1851.7	1661.2	1570.9
10°	2046.5	2172.1	2207.9	2114.9	1942.8	1739.0	1520.6	1417.4
12.5°	1884.6	2007.5	2034.9	2002.8	1858.9	1654.1	1432.6	1331.6
15°	1752.1	1807.1	1839.7	1867.7	1787.1	1620.5	1427.7	1316.7
17.5°	1671.4	1665.3	1674.6	1723.2	1736.9	1659.2	1503.4	1381.0
20°	1642.2	1548.7	1546.4	1613.4	1713.3	1751.5	1651.4	1504.5
22.5°	1658.3	1506.9	1487.7	1567.1	1725.9	1884.6	1845.3	1677.7
25°	1713.6	1510.4	1494.8	1571.8	1771.3	2026.4	2054.7	1902.1
27.5°	1800.7	1532.5	1512.1	1591.1	1831.6	2145.6	2260.9	2119.3
30°	1883.4	1570.9	1545.6	1628.8	1886.7	2192.8	2387.4	2288.9
32.5°	1983.9	1642.8	1598.4	1698.6	1954.7	2267.9	2500.0	2429.2
35°	2082.4	1745.4	1690.0	1805.9	2030.8	2361.3	2628.7	2608.6
37.5°	2190.4	1879.4	1833.6	1945.0	2134.8	2449.6	2793.0	2818.9
40°	2305.7	2057.1	2002.8	2147.6	2296.1	2560.3	2964.5	3026.8
42.5°	2422.0	2254.1	2189.5	2336.3	2473.5	2669.5	3111.2	3203.6
45°	2555.0	2468.2	2437.7	2596.3	2643.8	2773.4	3219.7	3334.4
47.5°	2709.9	2711.2	2760.3	2823.8	2815.7	2891.1	3328.6	3451.2
50°	2890.8	3014.4	3122.9	3165.1	2992.7	3017.5	3479.7	3607.5
52.5°	3108.1	3376.8	3511.5	3483.7	3183.5	3171.9	3719.0	3823.1
55°	3379.8	3760.7	3894.4	3874.7	3402.8	3382.1	4017.4	4077.9
57.5°	3694.4	4132.6	4255.5	4166.5	3666.0	3612.7	4264.0	4276.9
60°	3970.7	4427.4	4535.2	4436.4	3931.7	3858.3	4418.1	4356.0
62.5°	4124.5	4527.2	4603.0	4496.7	4113.7	4119.8	4451.9	4313.2
65°	4055.8	4274.8	4299.3	4290.5	4066.8	4271.6	4330.4	4115.5
67.5°	3679.6	3636.3	3677.4	3734.3	3664.9	4071.8	3994.0	3684.8
70°	3016.6	2779.9	2861.7	2899.8	2931.3	3503.8	3466.6	3001.3
72.5°	2273.3	1947.5	2012.1	2004.3	2149.9	2810.4	2696.0	2206.7
75°	1610.8	1320.5	1328.6	1325.5	1500.1	2198.9	1952.1	1509.8
77.5°	1127.1	956.7	961.1	979.2	1008.6	1658.3	1394.7	1102.9
80°	774.9	726.0	750.2	751.7	698.9	1114.0	1030.5	885.1
82.5°	577.2	504.7	498.9	507.3	547.8	902.6	791.9	613.9
85°	472.6	298.9	240.3	301.1	485.4	893.8	526.0	323.9
87.5°	266.1	141.8	64.0	118.9	193.7	591.7	152.0	41.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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