

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: P193009

Luminaire Tested: **GLEON-AF-01-LED-E1-SLL-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193009
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-SLL-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3490.8 lumens
Efficiency: N/A
Efficacy: 102.7 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 - G1

Input Watts (W): 34
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

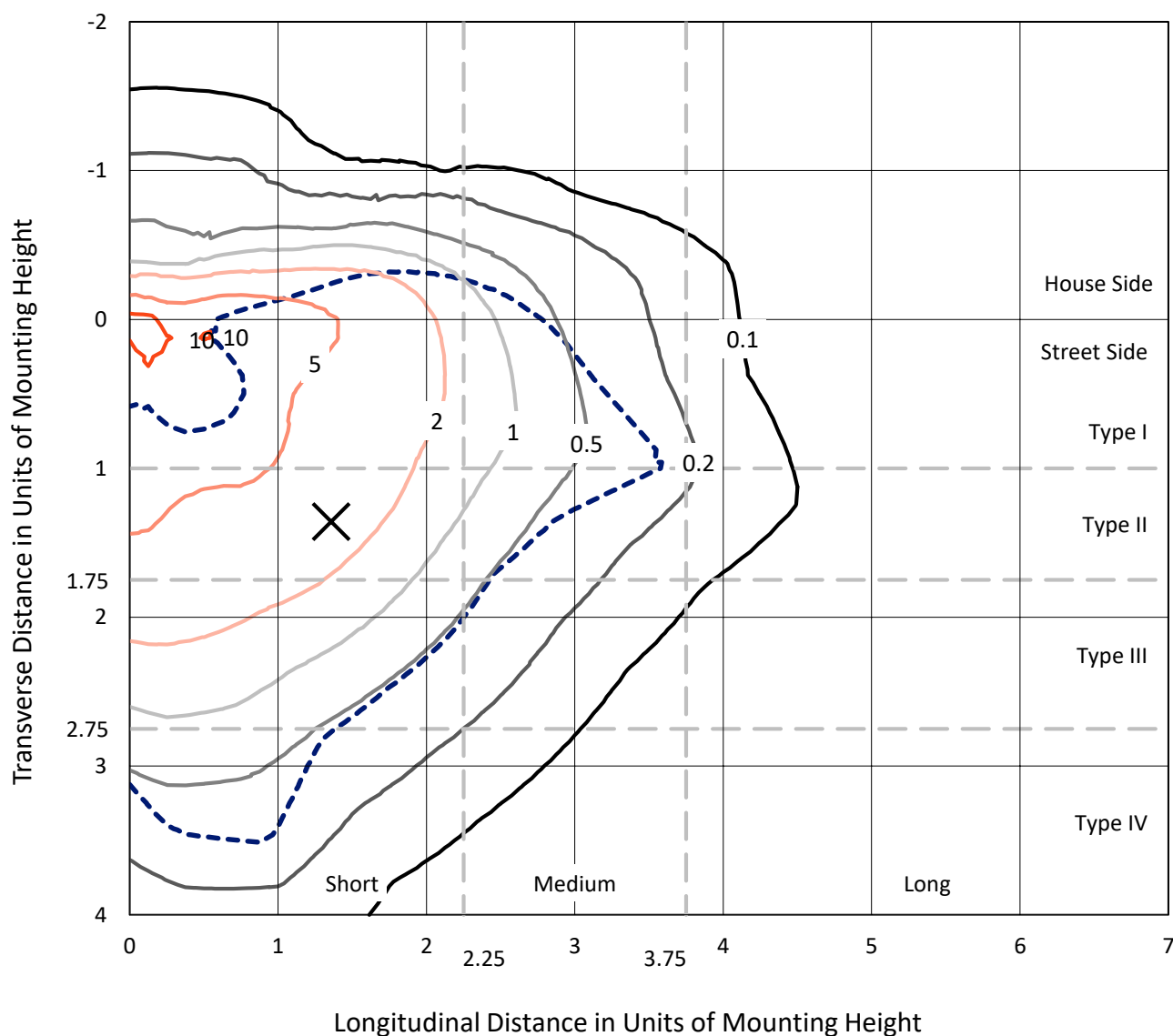


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

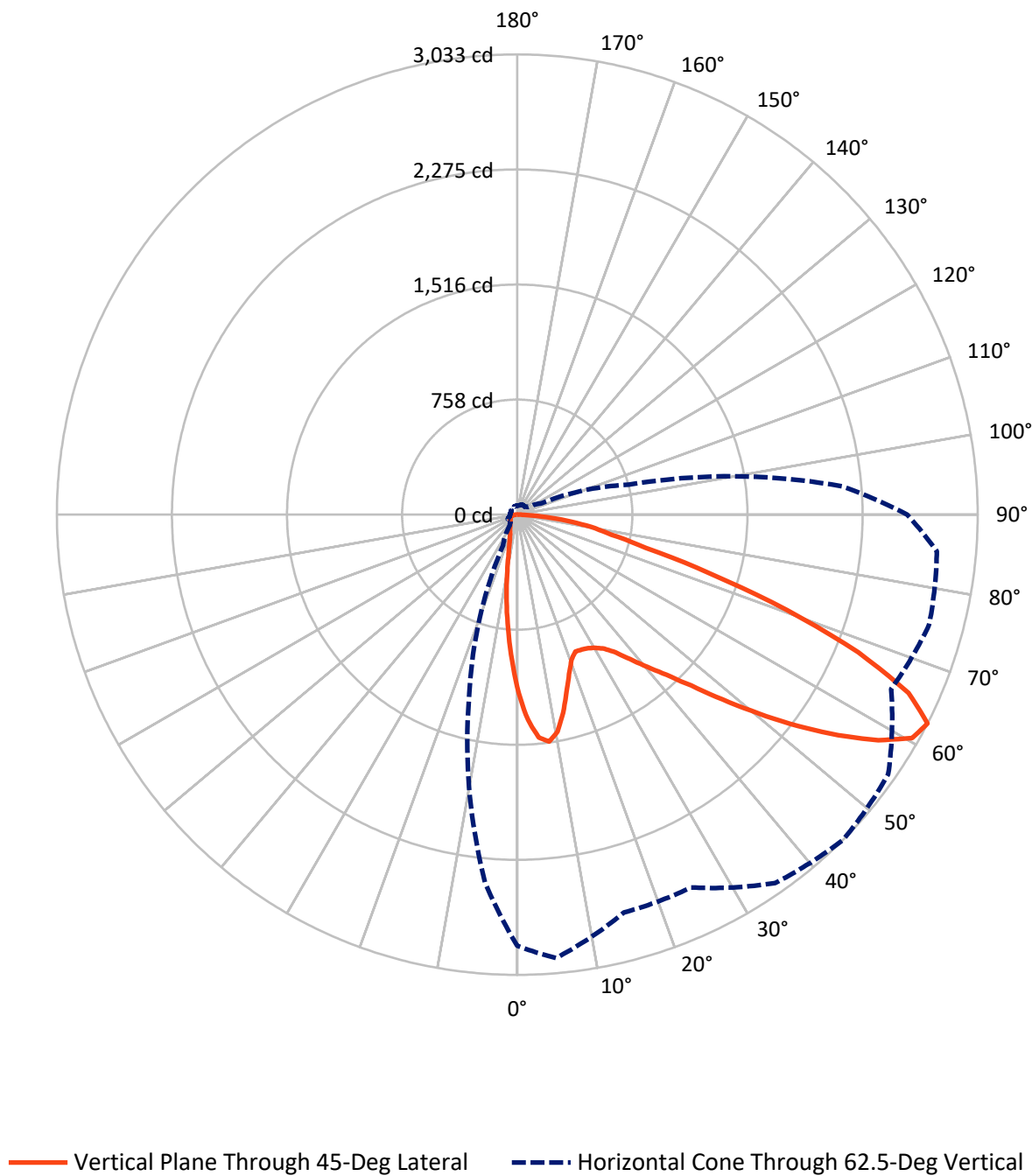


Based on 10 foot mounting height. Maximum calculated value = 13.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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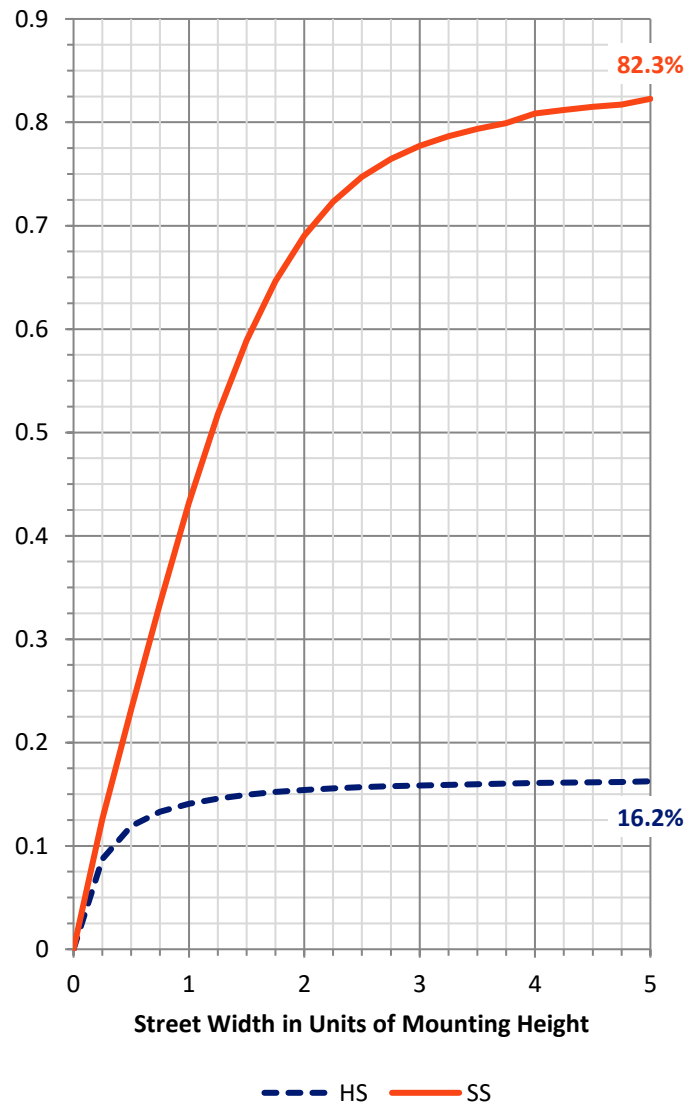
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	577.7	0.0	577.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	2913.1	0.0	2913.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	3490.8	0.0	3490.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	2.5
10°-20°	157.4	4.5
20°-30°	229.5	6.6
30°-40°	353.5	10.1
40°-50°	520.3	14.9
50°-60°	763.2	21.9
60°-70°	853.1	24.4
70°-80°	417.7	12.0
80°-90°	110.3	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°	3490.8	100.0
0°-180°	3490.8	100.0

Coefficient of Utilization



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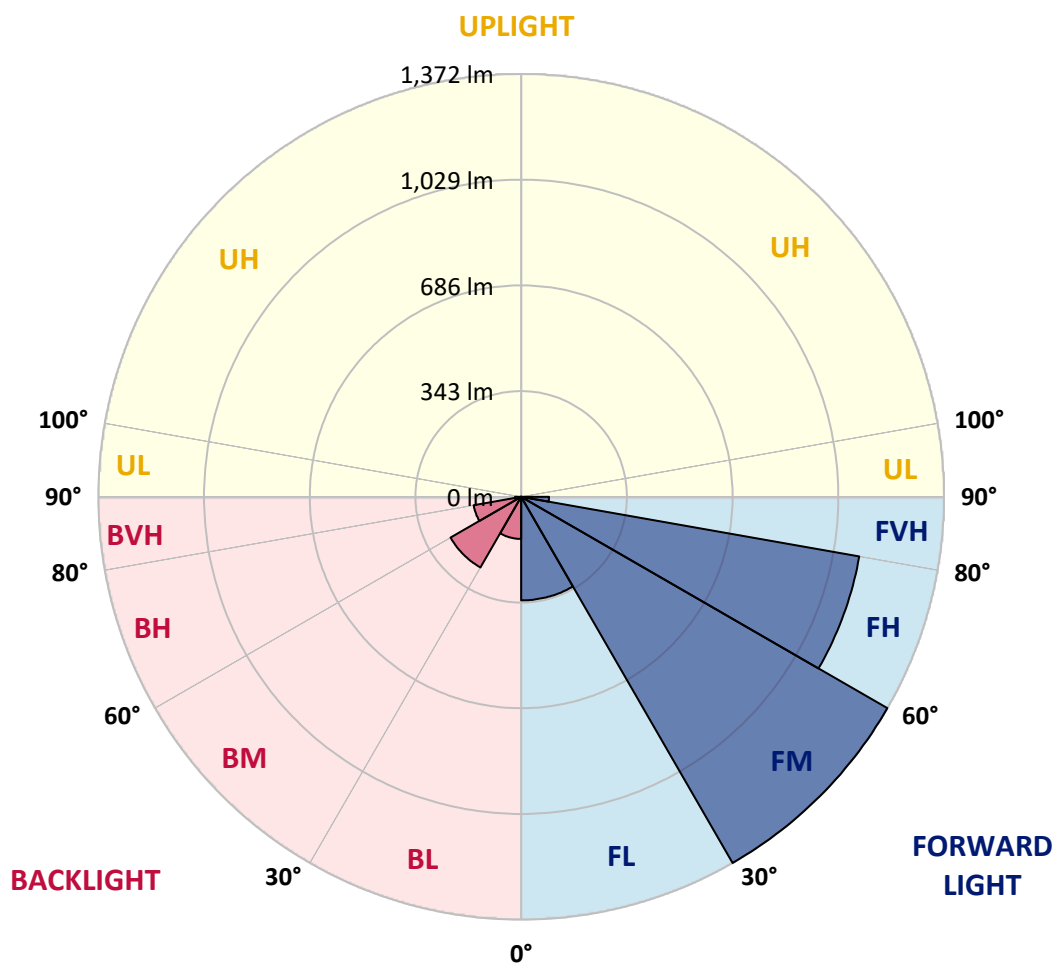
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	336.2	9.6			
FM	(30°-60°)	1372.3	39.3			
FH	(60°-80°)	1114.2	31.9			G1/1800
FVH	(80°-90°)	90.6	2.6			G1/100
BL	(0°-30°)	136.7	3.9	B1/500		
BM	(30°-60°)	264.7	7.6	B1/1000		
BH	(60°-80°)	156.6	4.5	B1/500		G1/500
BVH	(80°-90°)	19.7	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-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4
2.5°	1225.5	1245.0	1283.2	1311.7	1346.5	1354.6	1365.7	1354.9	1335.3	1309.7	1301.3
5°	1152.3	1194.2	1286.8	1368.4	1440.9	1474.7	1484.1	1456.3	1400.0	1326.2	1281.1
7.5°	1035.1	1094.6	1220.1	1340.2	1447.1	1510.2	1508.7	1444.0	1340.6	1220.3	1147.9
10°	933.9	1001.9	1145.8	1280.2	1393.6	1454.8	1431.2	1348.5	1225.1	1086.5	1008.0
12.5°	877.4	943.9	1090.0	1224.9	1319.7	1340.8	1322.7	1241.7	1125.5	985.4	916.6
15°	867.5	940.7	1067.7	1177.5	1230.6	1212.2	1190.7	1154.5	1072.3	952.7	881.1
17.5°	910.0	990.6	1093.2	1144.5	1135.4	1103.4	1097.3	1101.4	1081.5	989.1	906.6
20°	991.3	1088.0	1154.1	1128.9	1063.1	1019.0	1020.5	1082.1	1140.6	1080.9	986.7
22.5°	1105.4	1215.8	1241.7	1137.2	1032.6	980.2	992.8	1092.7	1234.8	1215.3	1095.0
25°	1253.3	1353.8	1335.2	1167.1	1035.7	985.0	995.2	1129.0	1346.2	1349.6	1228.9
27.5°	1396.5	1489.6	1413.7	1206.9	1048.4	996.3	1009.8	1186.4	1452.5	1495.4	1382.0
30°	1508.1	1573.0	1444.7	1243.2	1073.3	1018.4	1035.1	1240.9	1500.7	1593.9	1499.9
32.5°	1600.6	1647.2	1494.3	1288.0	1119.2	1053.1	1082.4	1307.2	1570.5	1687.5	1615.2
35°	1718.7	1732.1	1555.9	1338.1	1190.0	1113.6	1150.1	1372.1	1636.9	1782.1	1728.8
37.5°	1857.4	1840.3	1614.1	1406.6	1281.5	1208.2	1238.4	1443.2	1691.6	1889.4	1844.9
40°	1994.4	1953.3	1687.0	1512.9	1415.0	1319.7	1355.4	1519.2	1742.5	1996.8	1958.3
42.5°	2110.9	2050.0	1759.0	1629.8	1539.4	1442.7	1485.3	1595.8	1791.3	2088.6	2056.7
45°	2196.9	2121.4	1827.5	1742.0	1710.8	1606.2	1626.4	1683.4	1844.1	2165.2	2137.7
47.5°	2274.0	2193.2	1904.9	1855.2	1860.5	1818.8	1786.4	1785.7	1906.2	2227.7	2214.2
50°	2377.1	2292.8	1988.2	1971.9	2085.5	2057.7	1986.2	1904.7	1985.0	2298.7	2297.1
52.5°	2519.0	2450.4	2089.9	2097.6	2295.4	2313.7	2225.1	2047.9	2108.1	2429.1	2419.8
55°	2686.9	2647.1	2228.5	2242.1	2553.0	2566.1	2478.0	2226.9	2289.3	2617.7	2592.1
57.5°	2818.1	2809.5	2380.4	2415.6	2745.2	2804.0	2723.0	2434.2	2493.6	2776.5	2712.5
60°	2870.1	2911.1	2542.3	2590.6	2923.1	2988.2	2917.2	2616.3	2674.4	2842.4	2704.1
62.5°	2842.0	2933.3	2714.5	2710.5	2962.9	3032.9	2983.0	2717.6	2808.6	2774.4	2567.4
65°	2711.7	2853.3	2814.5	2679.6	2827.0	2832.8	2816.6	2672.4	2840.3	2559.7	2302.9
67.5°	2427.8	2631.6	2682.9	2414.8	2460.5	2423.1	2396.0	2424.5	2675.2	2237.8	1935.4
70°	1977.5	2284.2	2308.6	1931.4	1910.7	1885.6	1831.6	1987.7	2349.6	1834.1	1535.7
72.5°	1454.0	1776.3	1851.8	1416.5	1320.6	1325.9	1283.2	1498.0	1910.3	1362.5	1146.5
75°	994.8	1286.3	1448.8	988.5	873.3	875.3	870.0	1061.4	1521.6	947.9	858.0
77.5°	726.7	919.0	1092.7	664.6	645.1	633.2	630.4	742.6	1166.6	688.2	666.3
80°	583.2	678.9	734.0	460.5	495.3	494.3	478.4	510.7	761.9	503.3	498.3
82.5°	404.5	521.7	594.7	361.0	334.4	328.8	332.5	380.3	538.4	344.0	327.2
85°	213.4	346.6	588.9	319.9	198.5	158.3	196.8	311.5	466.5	182.4	159.6
87.5°	27.2	100.2	389.9	127.7	78.3	42.2	93.4	175.4	299.6	37.2	32.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4
2.5°	1279.5	1254.1	1220.7	1189.8	1157.7	1125.8	1084.2	1058.0	1040.0	1036.7	1028.9
5°	1248.5	1163.6	1099.5	1044.1	993.8	922.8	883.5	850.9	833.4	831.7	827.4
7.5°	1105.1	988.0	901.5	823.0	751.8	694.5	631.2	601.6	589.5	592.4	595.3
10°	956.0	825.1	725.7	645.5	582.8	534.4	483.6	449.3	425.4	420.6	419.7
12.5°	847.0	703.5	606.9	550.3	501.8	456.3	402.4	361.8	331.0	320.4	313.3
15°	801.0	644.0	542.9	481.9	428.3	370.5	320.4	278.1	249.6	240.5	235.2
17.5°	810.8	627.4	498.8	420.6	352.2	291.8	228.8	192.6	175.4	171.0	171.0
20°	862.2	624.4	462.2	364.3	278.8	209.0	157.2	136.5	130.9	130.3	131.8
22.5°	934.3	635.2	435.1	315.3	216.7	152.5	122.5	114.7	112.2	112.9	114.6
25°	1041.8	671.4	415.3	271.7	170.0	124.9	109.2	104.6	103.5	105.0	107.1
27.5°	1169.2	707.7	402.9	239.0	143.5	114.1	103.8	99.0	99.8	101.7	103.6
30°	1281.1	737.5	383.6	215.5	135.3	114.7	103.8	97.2	96.4	96.9	97.5
32.5°	1381.5	757.6	361.0	193.3	116.7	101.9	96.9	95.9	91.8	90.1	90.3
35°	1468.0	757.6	347.3	180.2	104.6	90.3	82.3	77.6	75.4	75.6	77.7
37.5°	1551.5	742.4	340.6	172.8	98.0	86.0	78.8	74.7	71.8	71.2	71.6
40°	1625.1	720.3	332.9	169.8	93.1	83.2	76.6	73.1	70.0	69.1	69.3
42.5°	1684.2	702.5	324.5	165.7	90.0	81.4	75.1	72.0	68.5	67.5	67.3
45°	1748.1	696.5	313.3	157.8	91.6	81.5	74.7	71.3	68.0	66.7	66.4
47.5°	1832.4	715.2	301.9	148.1	94.8	82.5	75.2	71.3	67.7	66.7	66.4
50°	1938.5	759.0	287.3	134.2	91.6	85.2	75.1	70.8	67.7	66.7	66.0
52.5°	2074.8	818.1	268.1	118.0	89.6	91.8	74.7	69.7	66.7	65.4	64.1
55°	2240.4	866.4	245.3	104.8	85.2	90.0	74.1	68.3	65.2	63.4	62.2
57.5°	2361.6	883.9	215.9	96.1	79.1	87.1	73.3	66.5	63.4	61.8	60.2
60°	2337.7	850.1	191.1	90.8	75.4	78.6	72.7	65.0	61.6	60.4	59.1
62.5°	2145.7	761.9	175.3	88.3	73.1	71.8	73.3	63.5	60.1	58.9	58.6
65°	1857.5	631.5	169.0	87.7	71.2	67.7	68.1	61.8	58.4	57.4	57.1
67.5°	1532.3	509.7	163.4	89.6	68.8	64.9	63.0	59.4	56.6	55.6	54.8
70°	1208.4	423.9	160.8	88.5	65.7	62.0	59.9	57.1	54.5	53.5	53.0
72.5°	973.1	358.1	159.5	87.3	61.6	58.1	56.3	53.7	51.1	50.7	50.0
75°	823.4	281.6	146.1	83.7	57.1	53.5	52.2	49.9	47.2	47.2	46.9
77.5°	635.2	203.5	121.5	74.1	52.2	48.4	47.2	45.5	42.4	42.9	42.8
80°	469.2	132.8	94.9	61.4	46.2	42.6	42.1	40.3	37.0	37.8	37.8
82.5°	321.4	87.1	68.3	50.3	39.6	36.0	36.0	34.3	30.7	31.1	32.2
85°	161.3	59.9	51.1	39.0	30.7	29.0	29.0	27.7	24.0	24.1	25.6
87.5°	49.1	36.0	33.8	27.9	22.1	21.7	20.8	19.7	17.5	17.3	18.2
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°	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4
2.5°	1017.2	1006.3	993.0	963.8	954.1	953.5	962.3	953.2	970.8	963.3	971.6
5°	820.3	809.6	794.9	757.6	735.0	719.6	712.4	690.8	706.4	695.0	704.5
7.5°	603.3	605.9	596.0	574.1	524.9	500.1	485.5	472.4	483.8	482.6	500.6
10°	424.0	430.8	423.9	401.8	361.8	348.3	350.9	356.1	370.9	378.6	406.5
12.5°	305.3	305.0	300.5	280.8	254.5	256.0	266.9	276.0	289.5	297.6	326.0
15°	228.1	224.5	222.6	206.5	191.5	194.8	200.2	201.1	209.8	214.5	237.5
17.5°	172.3	174.0	176.1	164.7	153.3	151.3	147.0	141.8	144.3	145.4	156.8
20°	136.8	143.6	148.9	140.8	129.4	123.3	117.8	114.4	114.4	114.1	117.5
22.5°	119.5	124.5	130.1	124.5	114.1	108.8	105.8	103.0	102.7	102.7	105.8
25°	110.2	113.8	119.2	115.4	107.6	103.6	100.7	97.2	95.9	95.6	97.7
27.5°	105.6	107.1	109.8	106.3	99.8	97.9	97.1	94.1	92.4	91.3	93.4
30°	97.7	97.2	97.5	94.1	88.8	88.6	90.0	90.5	90.0	89.8	93.1
32.5°	90.3	89.6	89.4	86.4	81.5	80.5	81.5	82.7	84.0	86.0	89.8
35°	81.2	83.0	84.2	81.5	75.8	72.3	71.0	69.0	67.7	67.7	72.1
37.5°	73.9	78.3	80.0	77.6	71.2	66.4	64.1	63.7	63.9	64.7	69.0
40°	71.3	74.7	76.2	73.6	67.3	63.0	61.6	61.1	61.6	62.8	66.9
42.5°	69.8	72.1	72.0	69.0	63.7	60.6	59.9	59.4	59.9	61.0	65.7
45°	68.5	70.0	68.5	64.9	60.1	58.6	58.7	58.6	58.9	60.1	64.5
47.5°	67.3	68.0	66.0	62.4	57.4	57.1	57.8	58.4	58.7	59.6	64.3
50°	65.7	65.7	63.9	60.1	55.0	55.2	56.3	57.6	57.8	58.9	62.6
52.5°	63.5	63.4	62.2	58.6	53.2	53.7	53.7	55.2	55.6	57.1	60.8
55°	61.8	61.4	60.8	57.4	51.5	52.3	51.8	52.3	53.3	54.7	58.9
57.5°	60.2	59.4	59.4	56.4	50.0	50.5	49.1	49.9	51.1	52.2	56.6
60°	58.7	57.9	58.4	55.0	48.0	47.6	47.0	48.5	48.9	50.3	54.7
62.5°	57.1	56.4	56.6	53.5	46.4	45.5	45.5	46.9	47.0	48.9	53.2
65°	55.6	54.8	54.7	52.0	44.7	43.6	44.1	44.7	45.2	47.0	51.1
67.5°	54.3	52.8	52.8	50.7	42.8	41.6	42.8	42.6	43.1	44.9	48.2
70°	52.6	50.5	50.7	49.7	40.9	39.6	40.5	40.3	40.7	41.8	45.2
72.5°	49.9	48.2	48.5	48.2	39.0	37.0	37.3	37.3	37.3	38.4	41.8
75°	46.4	45.2	46.2	47.2	36.6	34.0	34.3	34.3	33.8	34.3	38.6
77.5°	42.2	41.4	45.3	43.9	34.0	30.7	30.7	30.4	29.2	29.9	34.5
80°	37.5	37.0	41.8	36.8	30.9	26.7	26.3	25.3	24.1	24.8	29.4
82.5°	32.8	32.2	35.1	28.2	26.7	22.1	21.1	19.3	18.2	18.8	23.1
85°	26.9	26.9	27.1	21.3	20.3	16.9	15.8	13.4	12.1	12.4	16.5
87.5°	19.2	19.7	18.2	14.5	12.1	9.4	8.6	7.3	6.1	7.1	8.6
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°	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4	1179.4
2.5°	1013.8	1034.9	1058.8	1089.6	1115.9	1159.0	1200.5	1225.5
5°	758.0	793.1	836.8	893.0	945.4	1024.2	1102.2	1152.3
7.5°	542.5	580.0	627.2	697.5	771.6	872.0	975.2	1035.1
10°	448.8	487.4	527.1	574.4	635.2	744.4	866.4	933.9
12.5°	371.4	412.6	455.4	505.3	561.5	659.0	799.7	877.4
15°	284.2	330.3	380.8	443.8	514.3	626.9	783.2	867.5
17.5°	194.8	246.2	308.2	386.1	472.2	616.6	812.7	910.0
20°	134.2	171.5	237.7	329.1	432.7	615.2	869.4	991.3
22.5°	112.2	128.9	177.3	276.8	402.9	631.7	957.5	1105.4
25°	103.8	113.8	141.6	231.2	381.4	669.8	1078.8	1253.3
27.5°	98.9	107.8	128.6	201.5	364.3	713.9	1196.8	1396.5
30°	100.7	110.0	124.9	186.3	341.0	750.7	1301.6	1508.1
32.5°	90.8	94.8	107.1	172.8	324.3	781.6	1393.4	1600.6
35°	77.3	84.4	95.6	166.5	324.7	802.3	1493.3	1718.7
37.5°	73.6	80.8	88.8	164.2	329.1	824.4	1608.1	1857.4
40°	71.3	77.9	84.7	162.9	333.3	844.6	1720.5	1994.4
42.5°	69.8	75.8	84.4	158.3	335.4	862.6	1813.0	2110.9
45°	69.7	75.8	86.0	153.7	338.7	881.9	1890.5	2196.9
47.5°	69.8	78.3	83.0	148.1	338.7	914.4	1981.5	2274.0
50°	69.1	82.5	80.0	140.3	330.8	975.8	2106.3	2377.1
52.5°	68.8	82.0	74.1	128.2	317.2	1073.3	2266.1	2519.0
55°	67.7	79.1	69.8	110.2	301.2	1179.6	2437.2	2686.9
57.5°	66.7	70.0	67.5	94.4	276.8	1254.4	2555.1	2818.1
60°	74.9	61.1	65.7	86.8	243.8	1274.9	2550.4	2870.1
62.5°	69.3	57.4	63.2	85.0	220.9	1217.3	2432.6	2842.0
65°	54.3	54.8	60.6	90.0	214.7	1064.8	2223.9	2711.7
67.5°	49.7	52.3	58.1	96.3	215.3	852.6	1911.8	2427.8
70°	46.9	49.7	55.2	99.7	216.9	635.6	1511.6	1977.5
72.5°	43.6	46.1	52.0	100.2	206.8	461.7	1165.0	1454.0
75°	39.8	42.1	47.4	87.3	171.3	320.2	891.1	994.8
77.5°	35.3	37.0	41.6	67.3	127.2	205.0	669.0	726.7
80°	30.1	31.1	35.0	49.2	87.1	128.2	529.3	583.2
82.5°	24.1	24.6	27.1	37.0	56.6	82.3	354.4	404.5
85°	17.1	17.1	18.6	26.9	38.6	52.2	192.6	213.4
87.5°	8.0	8.3	8.3	14.7	20.1	26.4	44.4	27.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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