

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: P193049

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193049
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-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA 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: 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



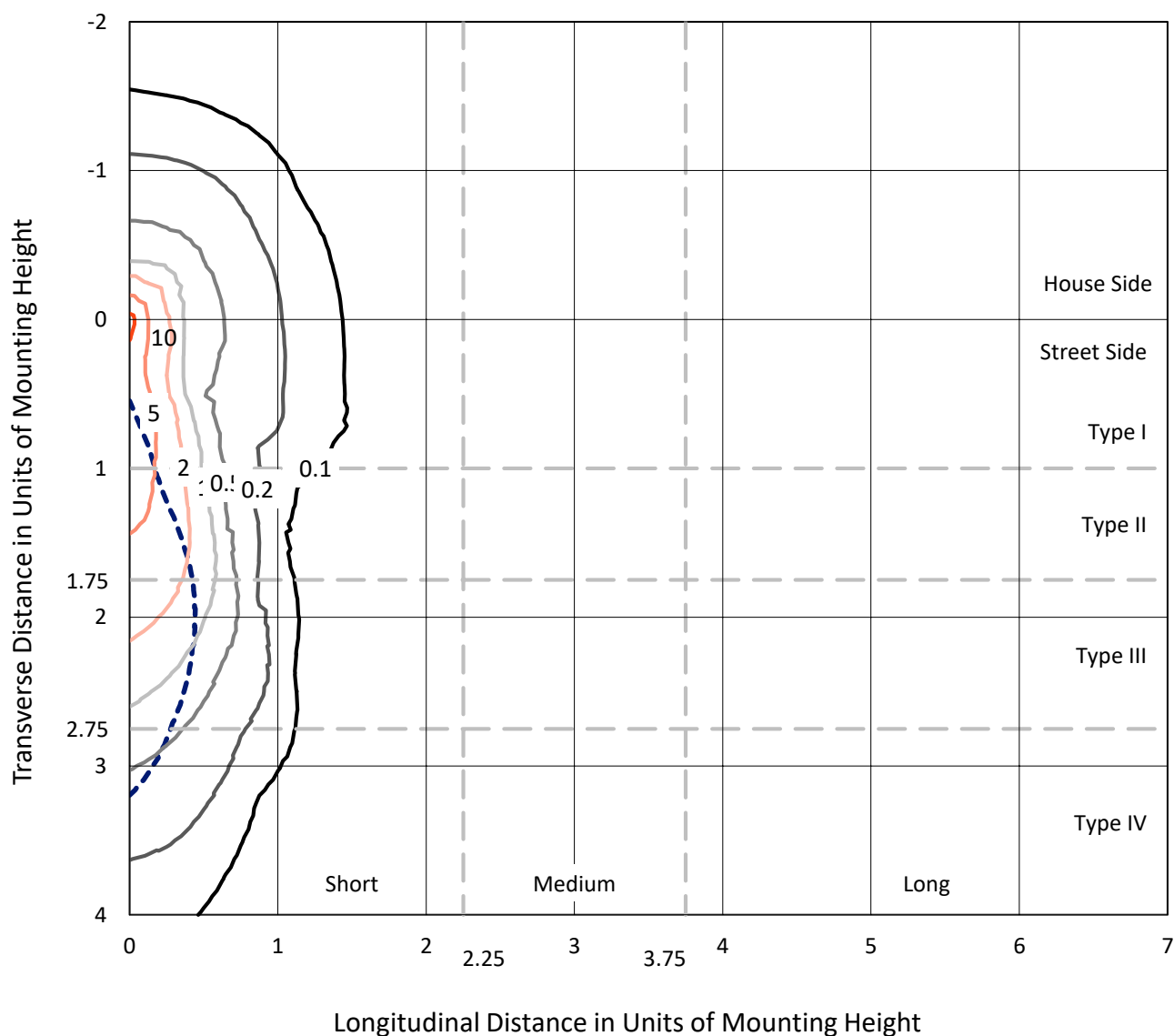
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

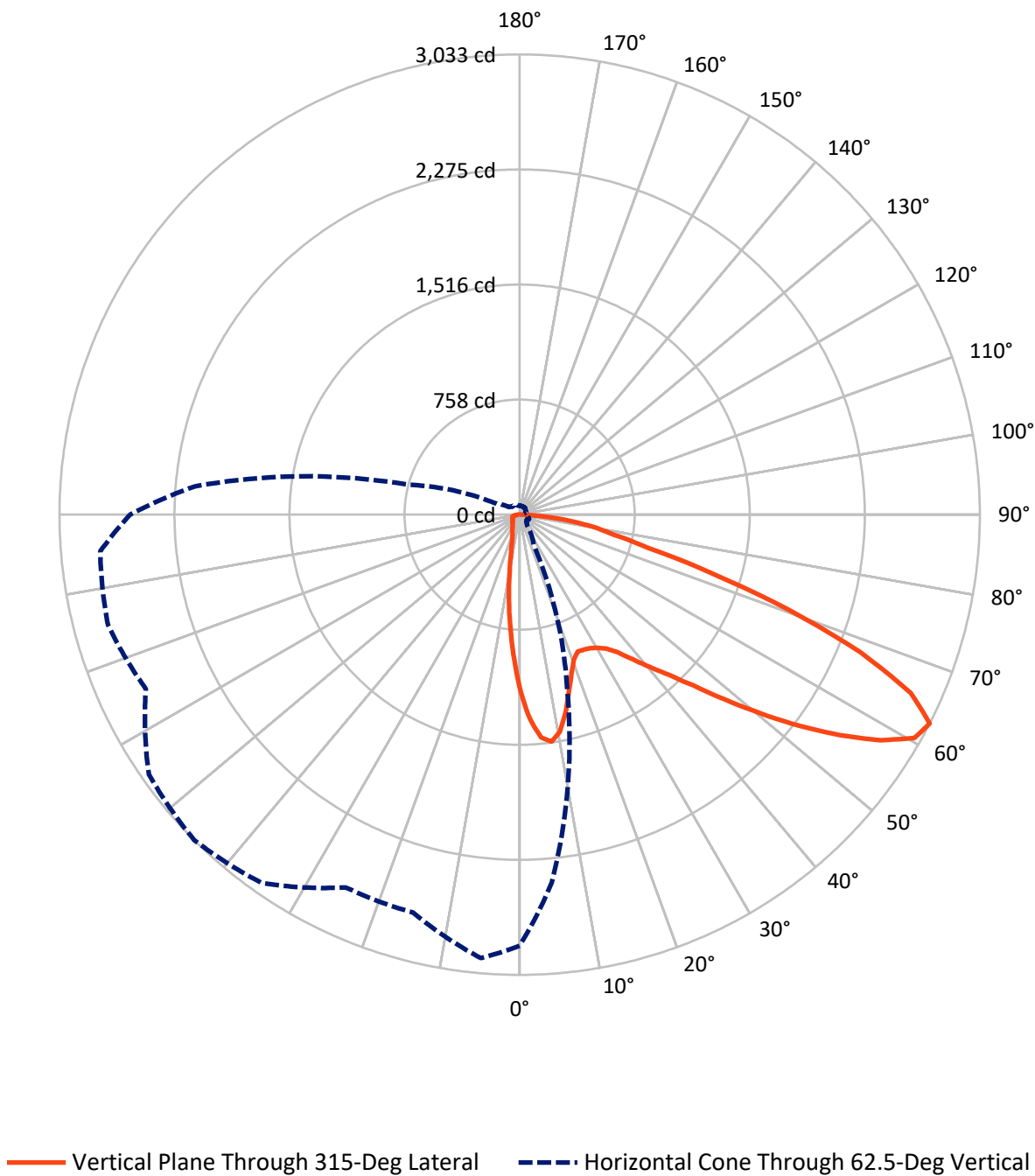


Based on 10 foot mounting height. Maximum calculated value = 11.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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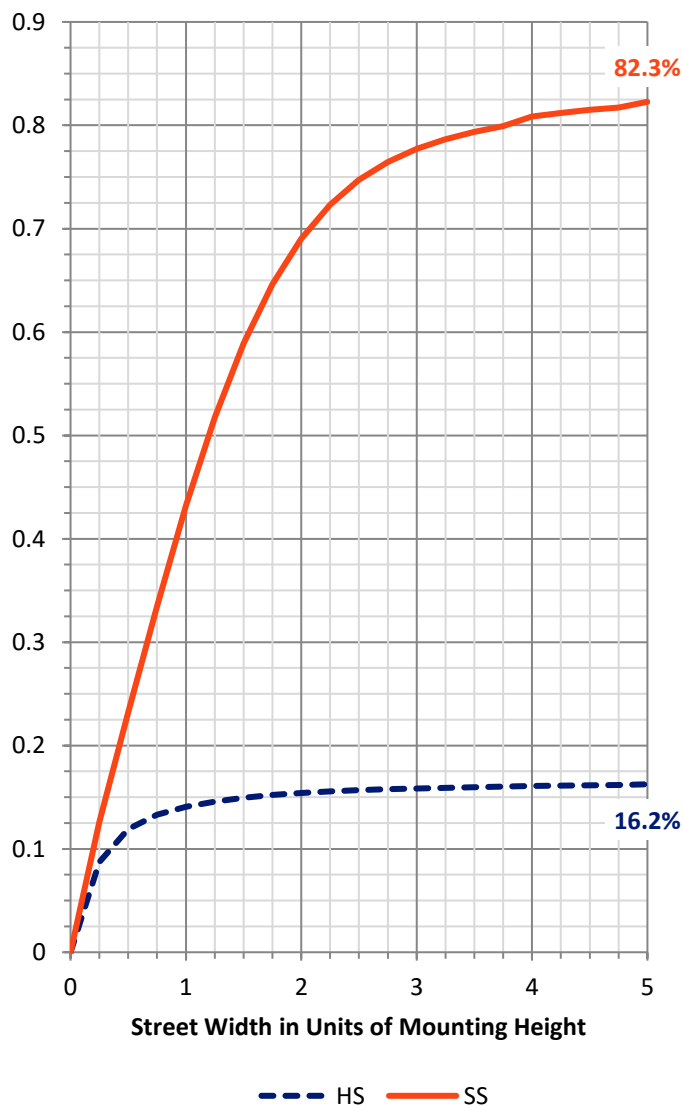
FLUX DISTRIBUTION:

		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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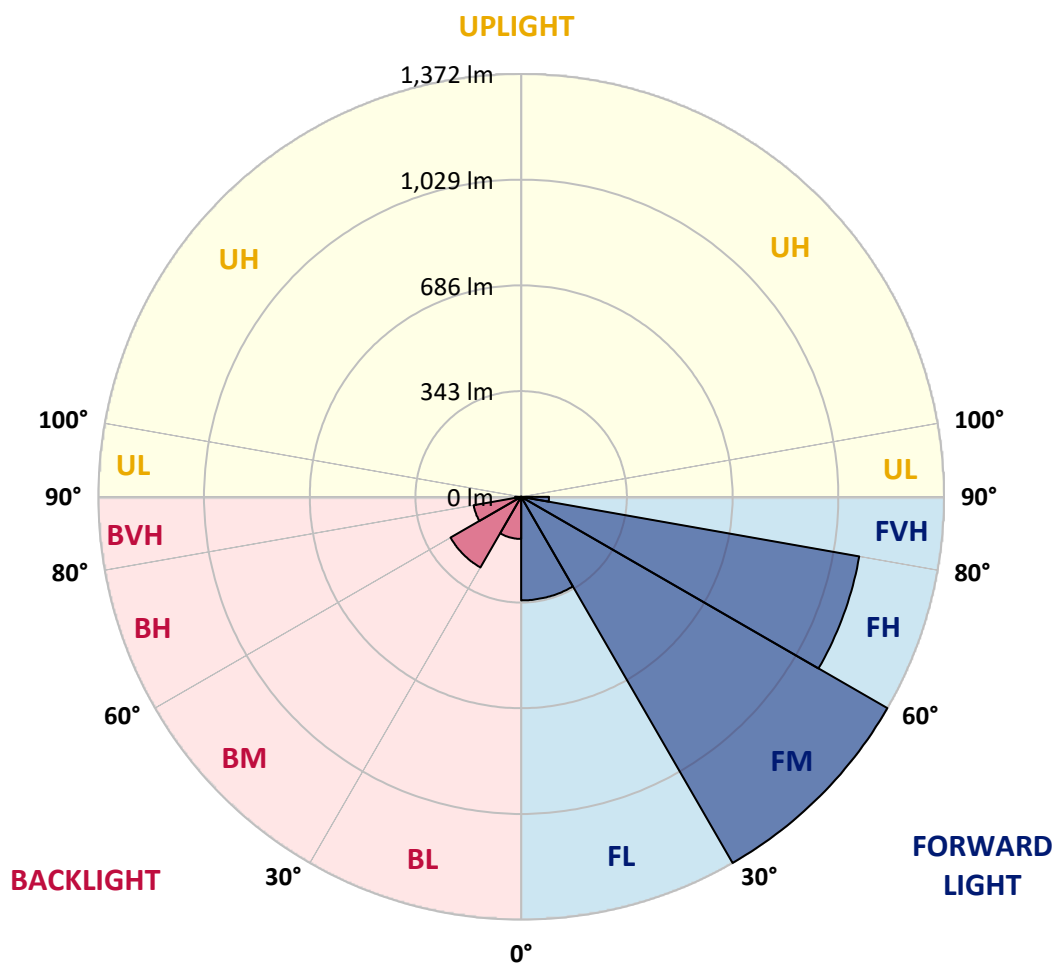
CATALOG NUMBER: GLEON-AF-01-LED-E1-SLR-7030-600

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	1200.5	1159.0	1115.9	1089.6	1058.8	1034.9	1013.8	971.6	963.3	970.8
5°	1152.3	1102.2	1024.2	945.4	893.0	836.8	793.1	758.0	704.5	695.0	706.4
7.5°	1035.1	975.2	872.0	771.6	697.5	627.2	580.0	542.5	500.6	482.6	483.8
10°	933.9	866.4	744.4	635.2	574.4	527.1	487.4	448.8	406.5	378.6	370.9
12.5°	877.4	799.7	659.0	561.5	505.3	455.4	412.6	371.4	326.0	297.6	289.5
15°	867.5	783.2	626.9	514.3	443.8	380.8	330.3	284.2	237.5	214.5	209.8
17.5°	910.0	812.7	616.6	472.2	386.1	308.2	246.2	194.8	156.8	145.4	144.3
20°	991.3	869.4	615.2	432.7	329.1	237.7	171.5	134.2	117.5	114.1	114.4
22.5°	1105.4	957.5	631.7	402.9	276.8	177.3	128.9	112.2	105.8	102.7	102.7
25°	1253.3	1078.8	669.8	381.4	231.2	141.6	113.8	103.8	97.7	95.6	95.9
27.5°	1396.5	1196.8	713.9	364.3	201.5	128.6	107.8	98.9	93.4	91.3	92.4
30°	1508.1	1301.6	750.7	341.0	186.3	124.9	110.0	100.7	93.1	89.8	90.0
32.5°	1600.6	1393.4	781.6	324.3	172.8	107.1	94.8	90.8	89.8	86.0	84.0
35°	1718.7	1493.3	802.3	324.7	166.5	95.6	84.4	77.3	72.1	67.7	67.7
37.5°	1857.4	1608.1	824.4	329.1	164.2	88.8	80.8	73.6	69.0	64.7	63.9
40°	1994.4	1720.5	844.6	333.3	162.9	84.7	77.9	71.3	66.9	62.8	61.6
42.5°	2110.9	1813.0	862.6	335.4	158.3	84.4	75.8	69.8	65.7	61.0	59.9
45°	2196.9	1890.5	881.9	338.7	153.7	86.0	75.8	69.7	64.5	60.1	58.9
47.5°	2274.0	1981.5	914.4	338.7	148.1	83.0	78.3	69.8	64.3	59.6	58.7
50°	2377.1	2106.3	975.8	330.8	140.3	80.0	82.5	69.1	62.6	58.9	57.8
52.5°	2519.0	2266.1	1073.3	317.2	128.2	74.1	82.0	68.8	60.8	57.1	55.6
55°	2686.9	2437.2	1179.6	301.2	110.2	69.8	79.1	67.7	58.9	54.7	53.3
57.5°	2818.1	2555.1	1254.4	276.8	94.4	67.5	70.0	66.7	56.6	52.2	51.1
60°	2870.1	2550.4	1274.9	243.8	86.8	65.7	61.1	74.9	54.7	50.3	48.9
62.5°	2842.0	2432.6	1217.3	220.9	85.0	63.2	57.4	69.3	53.2	48.9	47.0
65°	2711.7	2223.9	1064.8	214.7	90.0	60.6	54.8	54.3	51.1	47.0	45.2
67.5°	2427.8	1911.8	852.6	215.3	96.3	58.1	52.3	49.7	48.2	44.9	43.1
70°	1977.5	1511.6	635.6	216.9	99.7	55.2	49.7	46.9	45.2	41.8	40.7
72.5°	1454.0	1165.0	461.7	206.8	100.2	52.0	46.1	43.6	41.8	38.4	37.3
75°	994.8	891.1	320.2	171.3	87.3	47.4	42.1	39.8	38.6	34.3	33.8
77.5°	726.7	669.0	205.0	127.2	67.3	41.6	37.0	35.3	34.5	29.9	29.2
80°	583.2	529.3	128.2	87.1	49.2	35.0	31.1	30.1	29.4	24.8	24.1
82.5°	404.5	354.4	82.3	56.6	37.0	27.1	24.6	24.1	23.1	18.8	18.2
85°	213.4	192.6	52.2	38.6	26.9	18.6	17.1	17.1	16.5	12.4	12.1
87.5°	27.2	44.4	26.4	20.1	14.7	8.3	8.3	8.0	8.6	7.1	6.1
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):

	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°	953.2	962.3	953.5	954.1	963.8	993.0	1006.3	1017.2	1028.9	1036.7	1040.0
5°	690.8	712.4	719.6	735.0	757.6	794.9	809.6	820.3	827.4	831.7	833.4
7.5°	472.4	485.5	500.1	524.9	574.1	596.0	605.9	603.3	595.3	592.4	589.5
10°	356.1	350.9	348.3	361.8	401.8	423.9	430.8	424.0	419.7	420.6	425.4
12.5°	276.0	266.9	256.0	254.5	280.8	300.5	305.0	305.3	313.3	320.4	331.0
15°	201.1	200.2	194.8	191.5	206.5	222.6	224.5	228.1	235.2	240.5	249.6
17.5°	141.8	147.0	151.3	153.3	164.7	176.1	174.0	172.3	171.0	171.0	175.4
20°	114.4	117.8	123.3	129.4	140.8	148.9	143.6	136.8	131.8	130.3	130.9
22.5°	103.0	105.8	108.8	114.1	124.5	130.1	124.5	119.5	114.6	112.9	112.2
25°	97.2	100.7	103.6	107.6	115.4	119.2	113.8	110.2	107.1	105.0	103.5
27.5°	94.1	97.1	97.9	99.8	106.3	109.8	107.1	105.6	103.6	101.7	99.8
30°	90.5	90.0	88.6	88.8	94.1	97.5	97.2	97.7	97.5	96.9	96.4
32.5°	82.7	81.5	80.5	81.5	86.4	89.4	89.6	90.3	90.3	90.1	91.8
35°	69.0	71.0	72.3	75.8	81.5	84.2	83.0	81.2	77.7	75.6	75.4
37.5°	63.7	64.1	66.4	71.2	77.6	80.0	78.3	73.9	71.6	71.2	71.8
40°	61.1	61.6	63.0	67.3	73.6	76.2	74.7	71.3	69.3	69.1	70.0
42.5°	59.4	59.9	60.6	63.7	69.0	72.0	72.1	69.8	67.3	67.5	68.5
45°	58.6	58.7	58.6	60.1	64.9	68.5	70.0	68.5	66.4	66.7	68.0
47.5°	58.4	57.8	57.1	57.4	62.4	66.0	68.0	67.3	66.4	66.7	67.7
50°	57.6	56.3	55.2	55.0	60.1	63.9	65.7	65.7	66.0	66.7	67.7
52.5°	55.2	53.7	53.7	53.2	58.6	62.2	63.4	63.5	64.1	65.4	66.7
55°	52.3	51.8	52.3	51.5	57.4	60.8	61.4	61.8	62.2	63.4	65.2
57.5°	49.9	49.1	50.5	50.0	56.4	59.4	59.4	60.2	60.2	61.8	63.4
60°	48.5	47.0	47.6	48.0	55.0	58.4	57.9	58.7	59.1	60.4	61.6
62.5°	46.9	45.5	45.5	46.4	53.5	56.6	56.4	57.1	58.6	58.9	60.1
65°	44.7	44.1	43.6	44.7	52.0	54.7	54.8	55.6	57.1	57.4	58.4
67.5°	42.6	42.8	41.6	42.8	50.7	52.8	52.8	54.3	54.8	55.6	56.6
70°	40.3	40.5	39.6	40.9	49.7	50.7	50.5	52.6	53.0	53.5	54.5
72.5°	37.3	37.3	37.0	39.0	48.2	48.5	48.2	49.9	50.0	50.7	51.1
75°	34.3	34.3	34.0	36.6	47.2	46.2	45.2	46.4	46.9	47.2	47.2
77.5°	30.4	30.7	30.7	34.0	43.9	45.3	41.4	42.2	42.8	42.9	42.4
80°	25.3	26.3	26.7	30.9	36.8	41.8	37.0	37.5	37.8	37.8	37.0
82.5°	19.3	21.1	22.1	26.7	28.2	35.1	32.2	32.8	32.2	31.1	30.7
85°	13.4	15.8	16.9	20.3	21.3	27.1	26.9	26.9	25.6	24.1	24.0
87.5°	7.3	8.6	9.4	12.1	14.5	18.2	19.7	19.2	18.2	17.3	17.5
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°	1058.0	1084.2	1125.8	1157.7	1189.8	1220.7	1254.1	1279.5	1301.3	1309.7	1335.3
5°	850.9	883.5	922.8	993.8	1044.1	1099.5	1163.6	1248.5	1281.1	1326.2	1400.0
7.5°	601.6	631.2	694.5	751.8	823.0	901.5	988.0	1105.1	1147.9	1220.3	1340.6
10°	449.3	483.6	534.4	582.8	645.5	725.7	825.1	956.0	1008.0	1086.5	1225.1
12.5°	361.8	402.4	456.3	501.8	550.3	606.9	703.5	847.0	916.6	985.4	1125.5
15°	278.1	320.4	370.5	428.3	481.9	542.9	644.0	801.0	881.1	952.7	1072.3
17.5°	192.6	228.8	291.8	352.2	420.6	498.8	627.4	810.8	906.6	989.1	1081.5
20°	136.5	157.2	209.0	278.8	364.3	462.2	624.4	862.2	986.7	1080.9	1140.6
22.5°	114.7	122.5	152.5	216.7	315.3	435.1	635.2	934.3	1095.0	1215.3	1234.8
25°	104.6	109.2	124.9	170.0	271.7	415.3	671.4	1041.8	1228.9	1349.6	1346.2
27.5°	99.0	103.8	114.1	143.5	239.0	402.9	707.7	1169.2	1382.0	1495.4	1452.5
30°	97.2	103.8	114.7	135.3	215.5	383.6	737.5	1281.1	1499.9	1593.9	1500.7
32.5°	95.9	96.9	101.9	116.7	193.3	361.0	757.6	1381.5	1615.2	1687.5	1570.5
35°	77.6	82.3	90.3	104.6	180.2	347.3	757.6	1468.0	1728.8	1782.1	1636.9
37.5°	74.7	78.8	86.0	98.0	172.8	340.6	742.4	1551.5	1844.9	1889.4	1691.6
40°	73.1	76.6	83.2	93.1	169.8	332.9	720.3	1625.1	1958.3	1996.8	1742.5
42.5°	72.0	75.1	81.4	90.0	165.7	324.5	702.5	1684.2	2056.7	2088.6	1791.3
45°	71.3	74.7	81.5	91.6	157.8	313.3	696.5	1748.1	2137.7	2165.2	1844.1
47.5°	71.3	75.2	82.5	94.8	148.1	301.9	715.2	1832.4	2214.2	2227.7	1906.2
50°	70.8	75.1	85.2	91.6	134.2	287.3	759.0	1938.5	2297.1	2298.7	1985.0
52.5°	69.7	74.7	91.8	89.6	118.0	268.1	818.1	2074.8	2419.8	2429.1	2108.1
55°	68.3	74.1	90.0	85.2	104.8	245.3	866.4	2240.4	2592.1	2617.7	2289.3
57.5°	66.5	73.3	87.1	79.1	96.1	215.9	883.9	2361.6	2712.5	2776.5	2493.6
60°	65.0	72.7	78.6	75.4	90.8	191.1	850.1	2337.7	2704.1	2842.4	2674.4
62.5°	63.5	73.3	71.8	73.1	88.3	175.3	761.9	2145.7	2567.4	2774.4	2808.6
65°	61.8	68.1	67.7	71.2	87.7	169.0	631.5	1857.5	2302.9	2559.7	2840.3
67.5°	59.4	63.0	64.9	68.8	89.6	163.4	509.7	1532.3	1935.4	2237.8	2675.2
70°	57.1	59.9	62.0	65.7	88.5	160.8	423.9	1208.4	1535.7	1834.1	2349.6
72.5°	53.7	56.3	58.1	61.6	87.3	159.5	358.1	973.1	1146.5	1362.5	1910.3
75°	49.9	52.2	53.5	57.1	83.7	146.1	281.6	823.4	858.0	947.9	1521.6
77.5°	45.5	47.2	48.4	52.2	74.1	121.5	203.5	635.2	666.3	688.2	1166.6
80°	40.3	42.1	42.6	46.2	61.4	94.9	132.8	469.2	498.3	503.3	761.9
82.5°	34.3	36.0	36.0	39.6	50.3	68.3	87.1	321.4	327.2	344.0	538.4
85°	27.7	29.0	29.0	30.7	39.0	51.1	59.9	161.3	159.6	182.4	466.5
87.5°	19.7	20.8	21.7	22.1	27.9	33.8	36.0	49.1	32.4	37.2	299.6
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°	1354.9	1365.7	1354.6	1346.5	1311.7	1283.2	1245.0	1225.5
5°	1456.3	1484.1	1474.7	1440.9	1368.4	1286.8	1194.2	1152.3
7.5°	1444.0	1508.7	1510.2	1447.1	1340.2	1220.1	1094.6	1035.1
10°	1348.5	1431.2	1454.8	1393.6	1280.2	1145.8	1001.9	933.9
12.5°	1241.7	1322.7	1340.8	1319.7	1224.9	1090.0	943.9	877.4
15°	1154.5	1190.7	1212.2	1230.6	1177.5	1067.7	940.7	867.5
17.5°	1101.4	1097.3	1103.4	1135.4	1144.5	1093.2	990.6	910.0
20°	1082.1	1020.5	1019.0	1063.1	1128.9	1154.1	1088.0	991.3
22.5°	1092.7	992.8	980.2	1032.6	1137.2	1241.7	1215.8	1105.4
25°	1129.0	995.2	985.0	1035.7	1167.1	1335.2	1353.8	1253.3
27.5°	1186.4	1009.8	996.3	1048.4	1206.9	1413.7	1489.6	1396.5
30°	1240.9	1035.1	1018.4	1073.3	1243.2	1444.7	1573.0	1508.1
32.5°	1307.2	1082.4	1053.1	1119.2	1288.0	1494.3	1647.2	1600.6
35°	1372.1	1150.1	1113.6	1190.0	1338.1	1555.9	1732.1	1718.7
37.5°	1443.2	1238.4	1208.2	1281.5	1406.6	1614.1	1840.3	1857.4
40°	1519.2	1355.4	1319.7	1415.0	1512.9	1687.0	1953.3	1994.4
42.5°	1595.8	1485.3	1442.7	1539.4	1629.8	1759.0	2050.0	2110.9
45°	1683.4	1626.4	1606.2	1710.8	1742.0	1827.5	2121.4	2196.9
47.5°	1785.7	1786.4	1818.8	1860.5	1855.2	1904.9	2193.2	2274.0
50°	1904.7	1986.2	2057.7	2085.5	1971.9	1988.2	2292.8	2377.1
52.5°	2047.9	2225.1	2313.7	2295.4	2097.6	2089.9	2450.4	2519.0
55°	2226.9	2478.0	2566.1	2553.0	2242.1	2228.5	2647.1	2686.9
57.5°	2434.2	2723.0	2804.0	2745.2	2415.6	2380.4	2809.5	2818.1
60°	2616.3	2917.2	2988.2	2923.1	2590.6	2542.3	2911.1	2870.1
62.5°	2717.6	2983.0	3032.9	2962.9	2710.5	2714.5	2933.3	2842.0
65°	2672.4	2816.6	2832.8	2827.0	2679.6	2814.5	2853.3	2711.7
67.5°	2424.5	2396.0	2423.1	2460.5	2414.8	2682.9	2631.6	2427.8
70°	1987.7	1831.6	1885.6	1910.7	1931.4	2308.6	2284.2	1977.5
72.5°	1498.0	1283.2	1325.9	1320.6	1416.5	1851.8	1776.3	1454.0
75°	1061.4	870.0	875.3	873.3	988.5	1448.8	1286.3	994.8
77.5°	742.6	630.4	633.2	645.1	664.6	1092.7	919.0	726.7
80°	510.7	478.4	494.3	495.3	460.5	734.0	678.9	583.2
82.5°	380.3	332.5	328.8	334.4	361.0	594.7	521.7	404.5
85°	311.5	196.8	158.3	198.5	319.9	588.9	346.6	213.4
87.5°	175.4	93.4	42.2	78.3	127.7	389.9	100.2	27.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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