

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: P526234

Luminaire Tested: **GALN-SA1A-830-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526234
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-830-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2739.1 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 33
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: 24 FT

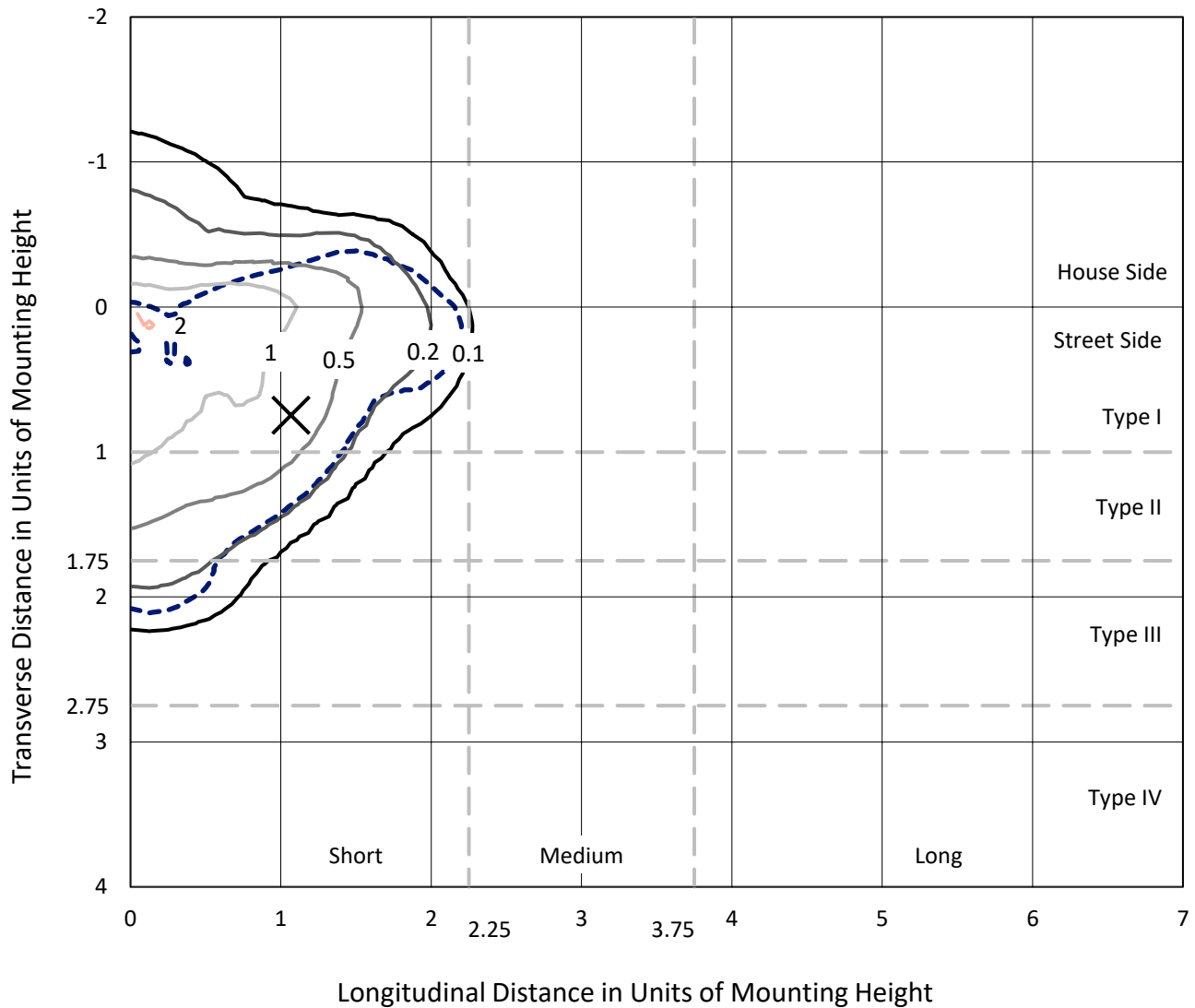


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

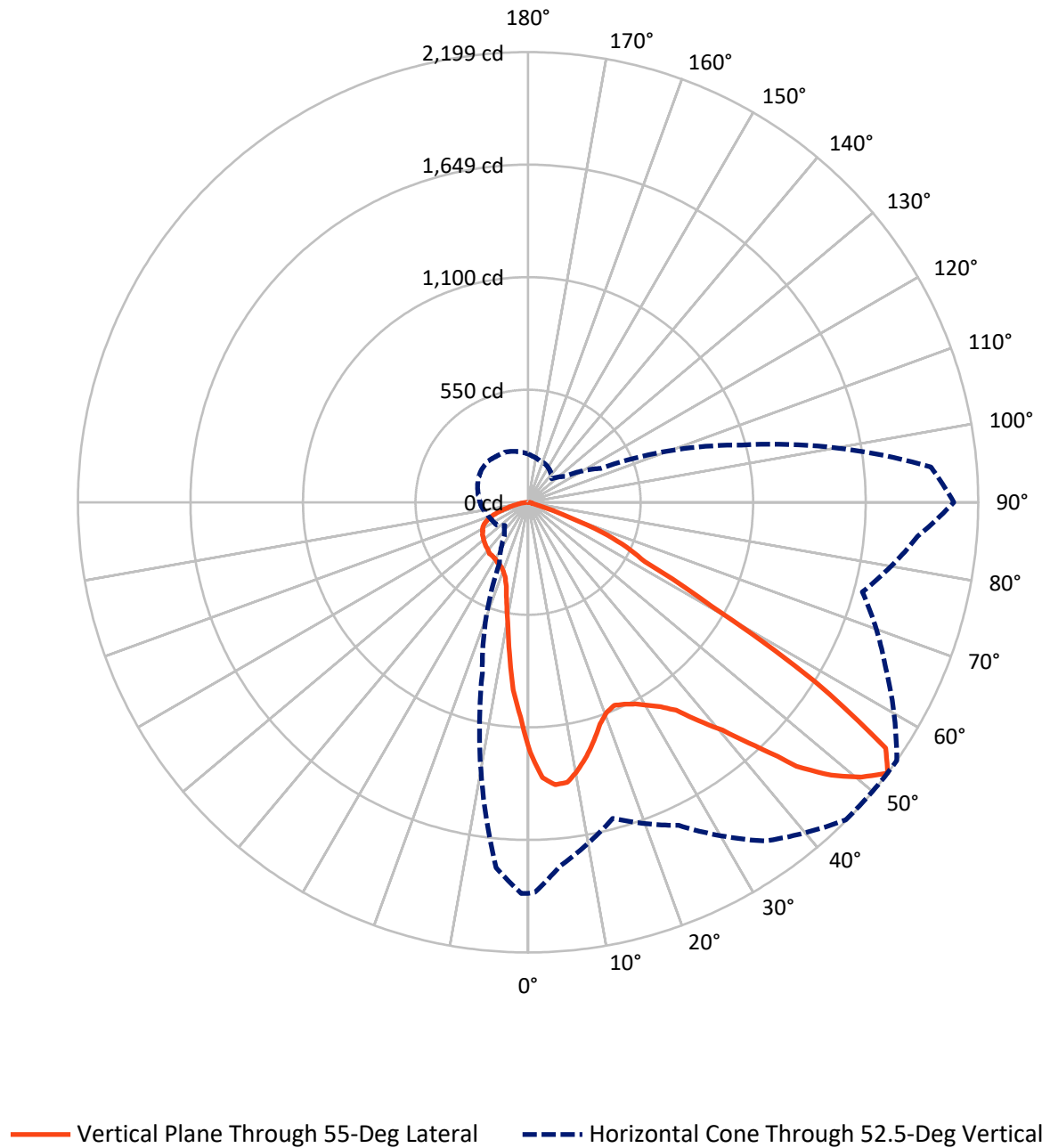


Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	835.6	0.0	835.6
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	1903.5	0.0	1903.5
	% Fixture	69.5	0.0	69.5
Total	Lumens	2739.1	0.0	2739.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.3	3.4
10°-20°	201.3	7.3
20°-30°	305.2	11.1
30°-40°	440.9	16.1
40°-50°	589.2	21.5
50°-60°	657.7	24.0
60°-70°	360.8	13.2
70°-80°	78.0	2.8
80°-90°	12.6	0.5
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°	2739.1	100.0
0°-180°	2739.1	100.0

Coefficient of Utilization



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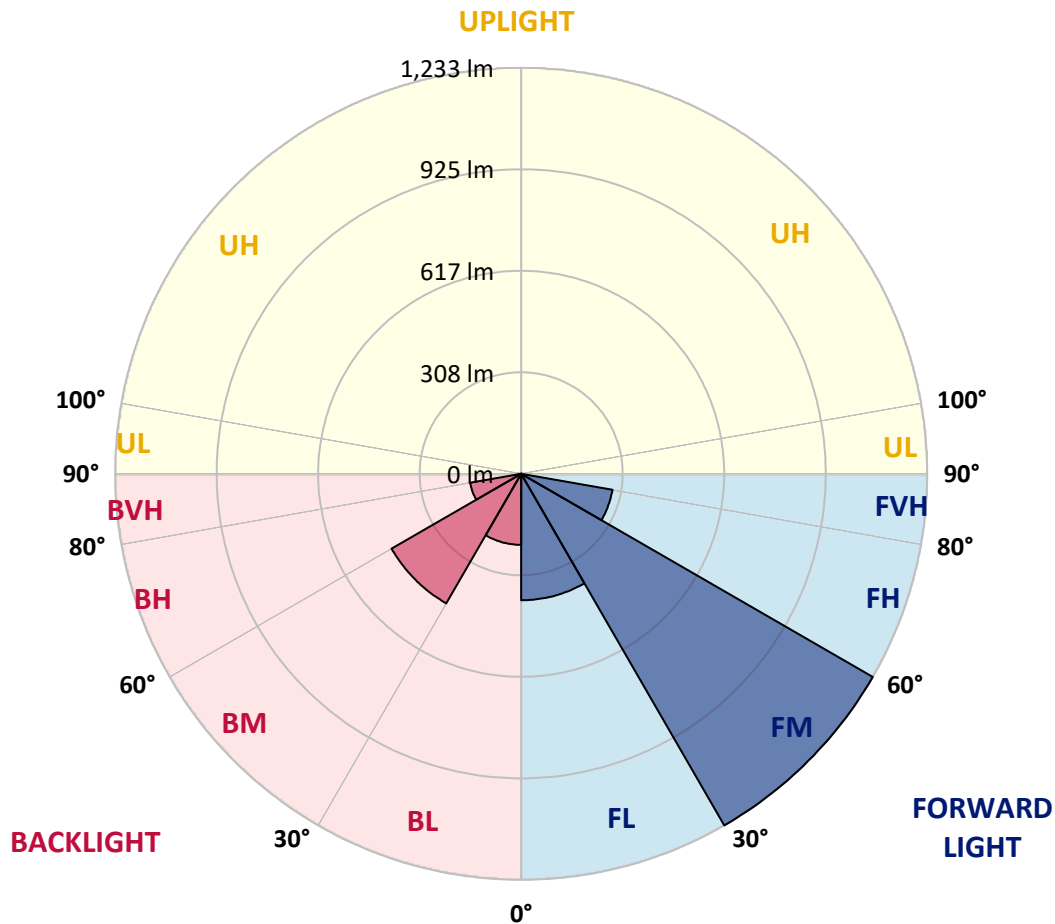
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	384.1	14.0			
FM	(30°-60°)	1233.2	45.0			
FH	(60°-80°)	281.5	10.3			G0/660
FVH	(80°-90°)	4.7	0.2			G0/10
BL	(0°-30°)	215.7	7.9	B1/500		
BM	(30°-60°)	454.6	16.6	B1/1000		
BH	(60°-80°)	157.3	5.7	B1/500		G1/500
BVH	(80°-90°)	7.9	0.3			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8
2.5°	1282.2	1275.0	1281.4	1311.8	1329.4	1341.4	1349.0	1347.8	1319.0	1291.0	1291.0
5°	1244.6	1235.4	1248.6	1317.4	1386.6	1392.6	1402.6	1386.2	1343.8	1292.6	1228.6
7.5°	1135.8	1142.6	1164.6	1255.0	1345.0	1390.2	1402.2	1381.4	1312.6	1217.0	1123.0
10°	1041.8	1057.8	1108.6	1206.2	1289.0	1347.8	1361.0	1331.8	1277.4	1160.2	1076.2
12.5°	1009.4	999.4	1055.8	1153.4	1232.6	1264.2	1270.2	1272.2	1235.4	1131.4	1029.0
15°	1005.4	1011.8	1055.8	1129.8	1178.6	1180.2	1190.2	1205.8	1210.6	1151.0	1051.0
17.5°	1063.0	1055.4	1100.6	1159.4	1136.2	1113.0	1115.4	1137.8	1177.4	1167.8	1120.2
20°	1148.2	1165.4	1201.0	1195.0	1132.6	1073.8	1074.2	1095.4	1173.4	1237.4	1216.6
22.5°	1289.8	1306.6	1333.0	1260.6	1132.6	1062.2	1048.6	1077.4	1199.0	1320.2	1325.4
25°	1419.0	1449.8	1457.0	1371.8	1189.4	1073.0	1064.2	1092.6	1224.6	1401.0	1450.2
27.5°	1536.6	1547.8	1579.3	1443.4	1221.0	1080.2	1079.4	1115.8	1257.0	1441.4	1561.8
30°	1629.3	1628.1	1646.1	1488.6	1271.4	1120.6	1081.8	1150.6	1299.4	1508.2	1664.9
32.5°	1692.5	1706.1	1744.1	1551.4	1292.6	1159.0	1128.6	1191.4	1351.0	1539.8	1737.7
35°	1803.7	1827.3	1779.3	1586.1	1359.8	1197.0	1161.4	1247.0	1376.6	1574.1	1826.9
37.5°	1908.5	1890.5	1841.7	1604.9	1403.4	1267.4	1234.2	1354.6	1456.2	1648.9	1886.1
40°	1975.7	1975.3	1888.5	1620.1	1434.2	1375.0	1373.0	1463.8	1553.8	1696.1	1952.5
42.5°	2004.9	2032.9	1907.7	1618.5	1499.0	1505.4	1545.8	1626.9	1622.9	1705.7	1950.9
44°	2044.9	2061.7	1940.9	1622.1	1542.2	1593.3	1688.5	1740.1	1683.3	1700.5	1948.9
45°	2043.3	2044.5	1893.7	1626.9	1578.9	1666.9	1752.1	1839.3	1736.5	1689.3	1975.3
47.5°	1996.5	1982.9	1853.7	1591.3	1693.7	1861.3	1940.1	1992.9	1802.1	1665.3	1942.5
50°	1904.1	1888.5	1756.5	1576.1	1717.7	1982.1	2090.9	2110.1	1861.7	1641.7	1910.1
52.5°	1910.5	1906.1	1784.1	1598.9	1741.7	2020.1	2194.5	2199.3	1929.3	1691.3	1910.5
55°	2024.9	2009.7	1863.3	1627.3	1724.1	1975.7	2128.5	2120.1	1906.5	1661.3	1945.7
57.5°	1852.9	1862.9	1753.7	1515.0	1509.0	1606.1	1673.3	1652.5	1590.9	1499.4	1810.1
60°	1495.0	1523.4	1533.8	1267.0	1138.6	1088.6	1068.6	1031.8	1042.2	1231.8	1590.1
62.5°	1282.2	1280.6	1345.8	1148.6	745.9	641.5	631.9	640.3	760.3	1212.6	1557.4
65°	1016.6	1043.8	1063.8	973.4	590.3	476.3	475.9	529.1	657.9	1013.4	1257.4
67.5°	645.5	681.1	705.9	622.7	394.7	339.1	329.9	393.9	455.9	664.7	757.1
70°	363.9	380.7	391.9	359.1	251.2	176.0	165.6	180.8	275.6	430.3	448.7
72.5°	140.4	148.0	163.2	164.4	94.8	56.8	46.0	55.2	116.0	170.4	162.4
75°	21.6	23.2	32.8	39.2	27.2	20.8	22.0	22.8	32.4	44.0	36.8
77.5°	10.4	10.4	10.0	11.6	13.6	14.8	16.0	17.6	19.2	21.2	20.4
80°	6.8	6.8	6.8	8.0	10.0	12.0	13.6	14.4	15.2	16.8	16.0
82.5°	4.4	4.4	4.4	6.0	8.0	10.0	10.8	12.8	14.4	16.8	15.6
85°	2.4	2.4	2.4	4.0	6.0	8.4	8.0	6.4	3.6	0.4	0.8
87.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8
2.5°	1257.4	1239.0	1237.4	1199.8	1166.2	1149.8	1136.6	1099.8	1107.8	1086.6	1086.2
5°	1196.6	1159.0	1098.2	1048.2	998.2	988.2	944.6	906.7	907.9	880.7	885.5
7.5°	1087.4	1061.4	987.4	909.1	842.7	795.5	754.3	729.5	697.9	687.1	681.5
10°	1018.2	986.2	903.1	804.7	730.3	705.1	665.5	643.5	611.1	595.1	583.9
12.5°	987.8	941.1	837.1	737.1	687.5	661.5	627.9	587.9	549.5	534.7	514.3
15°	991.0	935.1	817.9	709.9	650.3	599.9	569.9	525.5	486.3	460.3	445.5
17.5°	1039.4	971.4	826.7	689.1	603.5	540.3	481.5	433.5	402.3	382.7	377.9
20°	1153.8	1061.4	841.5	655.5	556.7	477.9	405.5	355.5	331.5	331.1	331.5
22.5°	1249.0	1157.4	871.5	635.5	509.9	397.9	325.9	310.0	305.2	315.1	316.3
25°	1377.4	1265.4	923.1	625.1	466.7	339.1	294.8	288.8	288.4	301.2	301.6
27.5°	1509.0	1359.8	953.8	594.7	422.7	308.8	276.0	274.8	281.2	294.8	293.6
30°	1598.5	1439.0	1009.4	558.3	370.7	282.0	268.4	270.0	278.8	289.2	290.8
32.5°	1702.9	1517.0	1023.8	538.3	338.7	259.6	250.0	253.6	264.8	281.2	290.0
35°	1822.5	1572.2	1045.8	511.1	326.7	242.4	237.6	241.6	255.2	266.0	275.6
37.5°	1910.9	1669.7	1049.8	489.9	313.6	232.8	225.2	238.4	246.4	261.6	266.4
40°	1976.5	1740.5	1060.2	476.7	303.2	220.4	220.4	229.2	240.0	254.0	263.6
42.5°	2018.5	1792.1	1067.8	464.7	283.2	216.8	214.8	223.6	238.0	251.6	256.0
44°	2044.1	1814.1	1060.2	453.5	277.6	212.4	212.4	220.0	231.2	247.2	252.4
45°	2050.5	1841.7	1043.4	453.1	270.8	207.2	206.4	220.8	228.4	248.0	251.2
47.5°	2075.3	1875.7	1045.4	440.3	254.4	194.8	208.8	215.2	222.0	239.2	250.0
50°	2074.5	1896.9	1041.0	421.5	242.4	180.8	204.0	211.2	218.0	235.6	240.0
52.5°	2080.1	1976.1	1081.4	391.5	220.8	162.8	188.0	204.0	212.4	227.2	236.4
55°	2077.3	2021.3	1121.4	369.1	190.4	152.0	174.4	193.2	205.2	220.8	225.2
57.5°	1897.3	1786.5	1037.8	327.1	157.6	139.2	155.2	182.0	197.2	213.2	218.8
60°	1550.2	1377.0	855.9	240.8	129.6	128.0	144.4	178.4	184.8	198.8	208.4
62.5°	1432.6	1207.8	678.7	184.0	110.8	117.2	133.2	161.2	171.2	188.4	197.2
65°	1121.0	802.3	420.3	124.4	97.6	105.2	120.4	141.2	157.6	173.6	184.0
67.5°	663.9	438.3	208.0	87.2	85.2	93.2	108.8	124.4	143.2	160.8	166.0
70°	361.5	215.6	88.8	66.4	72.4	79.6	94.8	105.6	123.6	137.2	146.0
72.5°	116.0	65.6	44.4	49.2	55.2	63.6	72.8	86.0	98.8	106.8	114.0
75°	28.0	27.6	31.6	34.4	40.0	46.4	54.0	60.8	70.8	78.4	84.8
77.5°	19.6	21.2	24.4	28.4	30.4	32.8	37.6	42.8	47.2	52.8	56.8
80°	15.2	16.4	18.8	20.8	22.8	24.8	27.2	29.2	32.0	35.6	37.6
82.5°	14.4	15.2	17.6	18.8	18.0	17.6	19.2	20.0	20.4	21.6	22.8
85°	1.2	0.0	0.8	2.8	6.8	10.0	10.8	10.8	10.4	11.2	11.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.6	1.2
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8
2.5°	1081.4	1067.8	1073.0	1079.4	1070.2	1049.0	1054.6	1052.2	1073.8	1072.2	1093.8
5°	906.7	885.5	887.9	919.1	909.1	919.9	898.3	895.5	899.5	901.5	905.1
7.5°	693.9	691.1	715.1	741.5	753.9	741.1	719.9	715.1	710.7	701.9	721.9
10°	566.3	567.1	565.5	585.5	599.5	596.7	583.9	582.3	573.9	570.7	581.9
12.5°	505.5	494.7	489.5	483.1	493.9	501.1	495.5	491.5	491.9	495.9	497.5
15°	446.7	439.9	428.7	421.5	426.7	423.1	421.1	429.1	427.1	426.3	435.9
17.5°	380.7	386.3	385.5	377.5	384.3	381.5	381.1	375.5	367.9	362.3	365.5
20°	337.1	347.5	355.5	355.9	359.5	359.1	353.1	335.9	330.3	329.1	329.9
22.5°	321.5	327.1	336.7	350.3	350.3	343.9	336.7	316.7	311.6	306.0	303.6
25°	309.2	319.9	332.3	333.9	340.3	334.3	322.7	312.8	302.0	294.4	294.4
27.5°	302.8	314.7	323.9	326.7	335.5	330.7	318.7	306.0	293.2	292.8	286.0
30°	300.0	311.2	317.1	323.9	327.9	320.3	316.7	303.2	290.4	287.2	276.0
32.5°	291.6	307.6	318.7	317.1	320.3	317.1	312.0	300.8	286.4	279.2	278.0
35°	282.0	298.0	310.0	318.3	320.3	313.6	310.4	295.2	275.6	272.0	259.6
37.5°	276.8	286.4	301.2	314.7	317.5	314.0	303.2	287.6	268.0	264.0	253.2
40°	270.4	282.8	294.4	305.6	314.0	305.2	292.8	277.6	268.8	256.8	253.6
42.5°	265.6	279.6	289.2	301.6	311.2	299.6	285.2	274.8	262.4	254.4	245.2
44°	264.0	276.8	283.2	298.4	306.4	297.6	285.6	274.8	260.4	253.2	245.2
45°	258.4	276.0	282.8	296.4	303.2	296.0	280.8	270.0	259.6	250.8	242.4
47.5°	252.8	264.8	276.4	287.2	292.0	289.6	276.8	263.6	251.2	246.0	238.0
50°	251.2	263.2	274.0	284.0	289.6	284.8	273.2	260.4	246.0	237.6	230.8
52.5°	243.2	258.0	270.0	273.2	280.4	277.6	268.8	254.8	241.2	234.0	228.4
55°	231.6	247.2	263.6	267.6	278.0	273.6	260.4	247.2	235.6	224.8	217.6
57.5°	227.2	242.4	258.4	263.6	270.0	262.8	259.6	245.6	227.2	221.6	210.4
60°	216.0	235.2	248.4	260.4	260.8	258.8	253.2	237.2	222.0	211.6	203.6
62.5°	207.2	225.2	235.6	246.8	253.6	248.0	242.4	227.6	211.2	199.6	190.4
65°	194.4	210.8	219.6	226.4	234.0	233.2	223.6	212.8	195.6	186.4	177.6
67.5°	174.8	189.2	201.2	207.6	212.4	211.2	204.0	196.4	178.8	169.6	163.2
70°	151.2	166.0	173.6	177.2	182.0	184.4	178.8	175.2	159.6	147.6	141.6
72.5°	121.6	131.2	142.4	145.6	147.6	149.2	149.2	146.0	130.0	125.2	114.8
75°	89.6	97.2	105.6	105.6	109.2	109.6	110.4	108.4	96.4	90.0	87.6
77.5°	60.8	66.4	73.2	76.0	78.4	78.0	77.6	72.0	65.6	62.8	60.4
80°	39.6	45.2	48.4	52.0	54.4	54.0	54.8	50.8	48.0	43.2	44.0
82.5°	23.6	28.0	31.2	35.6	35.6	36.8	36.8	35.6	32.8	30.4	30.4
85°	11.2	14.8	16.8	19.6	21.2	21.6	19.2	16.4	13.6	12.4	13.6
87.5°	2.0	2.8	4.0	3.6	4.4	4.0	4.0	4.0	4.0	3.2	3.6
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8	1221.8
2.5°	1085.8	1105.8	1119.8	1143.0	1183.0	1215.0	1247.8	1272.2	1275.0	1282.2
5°	918.3	929.1	964.6	1011.0	1043.8	1097.8	1132.6	1195.8	1219.4	1244.6
7.5°	717.1	734.7	782.3	813.5	885.5	953.0	1023.0	1101.0	1132.2	1135.8
10°	604.7	630.3	662.7	712.7	751.9	827.1	914.3	1001.0	1035.8	1041.8
12.5°	531.1	563.9	607.1	643.1	680.7	746.3	829.9	937.1	982.2	1009.4
15°	460.3	494.3	541.9	591.9	625.1	703.5	801.9	922.7	981.4	1005.4
17.5°	387.5	419.1	458.3	512.3	579.1	667.1	797.5	970.6	1035.0	1063.0
20°	325.1	342.7	388.3	443.9	527.5	629.9	799.1	1041.4	1135.8	1148.2
22.5°	300.8	304.8	322.7	373.9	465.5	591.9	827.5	1141.8	1249.0	1289.8
25°	282.0	281.2	286.0	320.3	420.3	577.1	855.5	1234.2	1374.6	1419.0
27.5°	271.6	263.6	264.0	296.4	388.3	553.1	891.5	1340.2	1517.0	1536.6
30°	266.4	264.8	260.0	273.2	353.5	517.1	897.5	1444.6	1600.9	1629.3
32.5°	263.2	247.6	241.6	246.4	320.7	477.9	919.9	1513.4	1704.9	1692.5
35°	247.2	233.2	229.2	234.0	297.6	455.9	905.1	1573.4	1782.9	1803.7
37.5°	241.2	228.8	220.8	216.8	276.0	437.5	897.5	1665.7	1858.5	1908.5
40°	235.6	222.4	212.8	208.8	259.2	413.1	895.1	1736.9	1945.7	1975.7
42.5°	229.2	220.8	210.0	202.8	238.8	388.7	867.5	1758.9	1972.5	2004.9
44°	227.2	214.4	203.2	200.8	230.8	376.3	861.9	1778.9	1995.7	2044.9
45°	225.2	213.2	200.4	197.2	228.0	369.5	854.3	1783.7	2034.1	2043.3
47.5°	219.6	212.0	199.6	190.8	222.0	354.7	831.5	1756.5	1994.9	1996.5
50°	215.2	206.4	193.6	176.4	214.0	342.3	841.9	1746.5	1900.5	1904.1
52.5°	210.4	197.2	190.0	160.4	200.8	331.9	863.9	1791.7	1911.3	1910.5
55°	204.8	190.4	172.8	146.8	178.8	318.7	917.1	1880.9	2011.3	2024.9
57.5°	196.0	183.6	158.4	134.8	153.6	293.6	899.9	1710.1	1850.5	1852.9
60°	184.4	172.8	143.6	125.6	126.0	231.6	804.7	1332.6	1460.2	1495.0
62.5°	173.2	166.8	131.2	112.4	107.2	184.4	680.3	1107.4	1253.4	1282.2
65°	160.0	144.4	120.4	102.4	92.0	129.2	481.9	827.5	977.8	1016.6
67.5°	143.2	126.4	106.0	90.0	78.8	86.4	248.8	470.3	622.7	645.5
70°	125.2	109.6	89.2	76.0	63.6	59.6	109.6	224.4	340.3	363.9
72.5°	102.8	88.4	71.2	60.0	47.6	41.2	36.8	60.0	120.8	140.4
75°	74.4	64.4	53.6	42.8	33.6	26.4	21.6	18.0	20.0	21.6
77.5°	54.8	46.8	39.6	30.4	23.6	18.8	14.8	11.2	10.8	10.4
80°	42.8	38.0	31.6	24.4	18.4	14.0	10.4	7.6	6.8	6.8
82.5°	33.6	31.2	26.0	20.0	15.2	11.2	7.6	5.2	4.4	4.4
85°	12.8	12.8	18.8	16.4	11.6	8.0	5.2	2.8	2.4	2.4
87.5°	3.2	3.2	3.2	3.2	2.8	2.4	2.4	1.2	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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