

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: P946330

Luminaire Tested: **GALN-SB2A-735-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946330  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2A-735-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

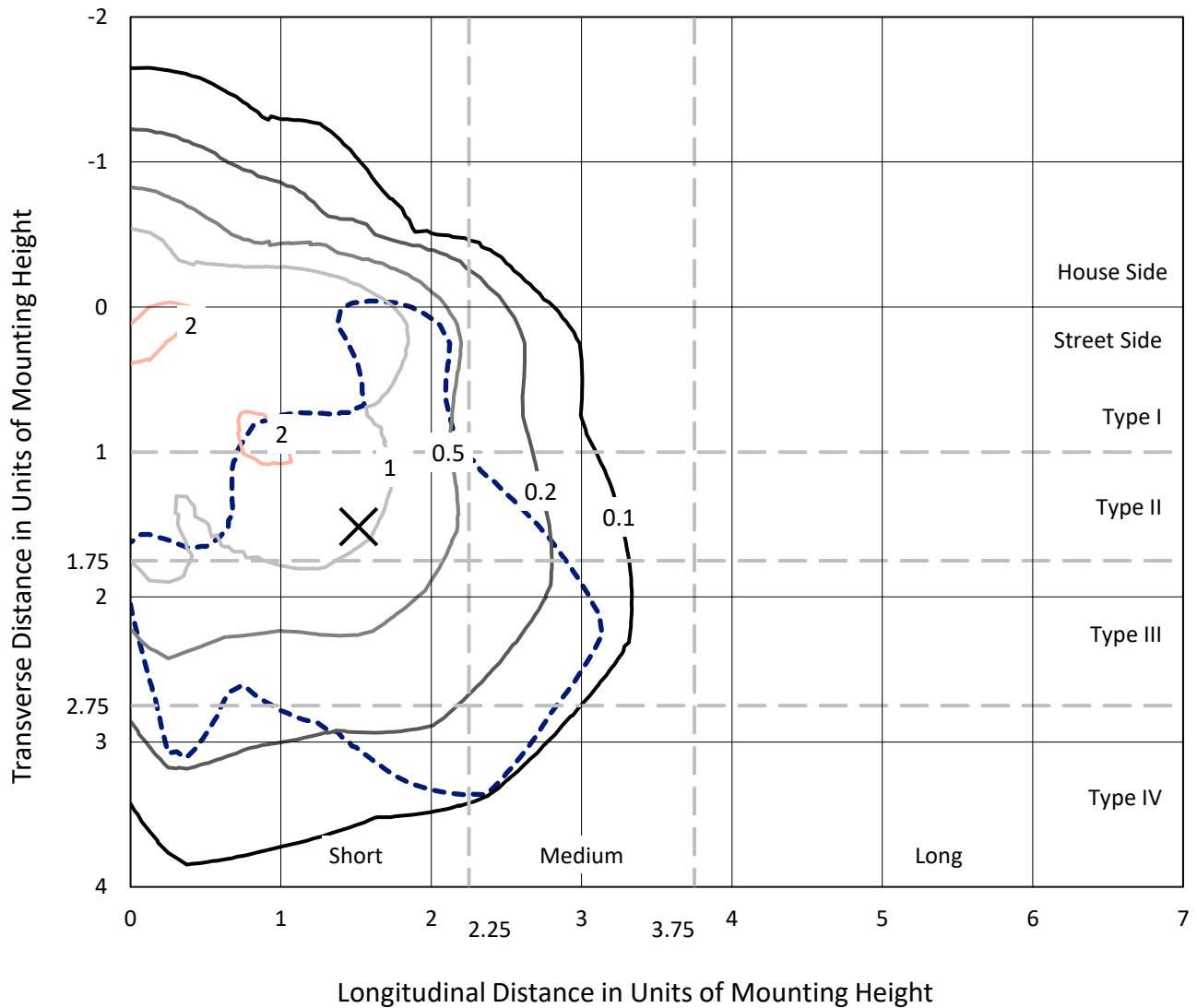
Lumens per Lamp: N/A  
Luminaire Lumens: 6846 lumens  
Efficiency: N/A  
Efficacy: 119.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

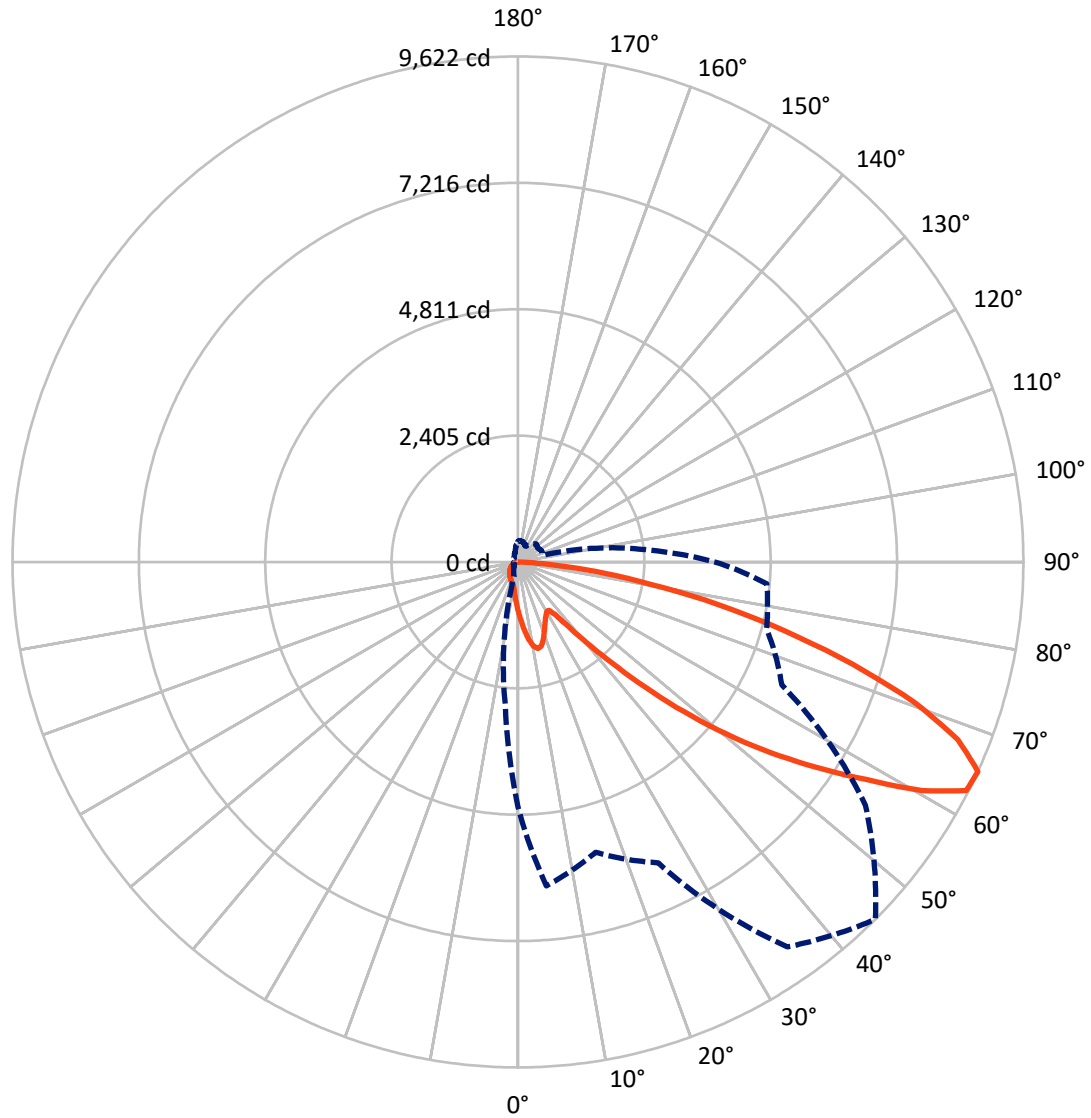
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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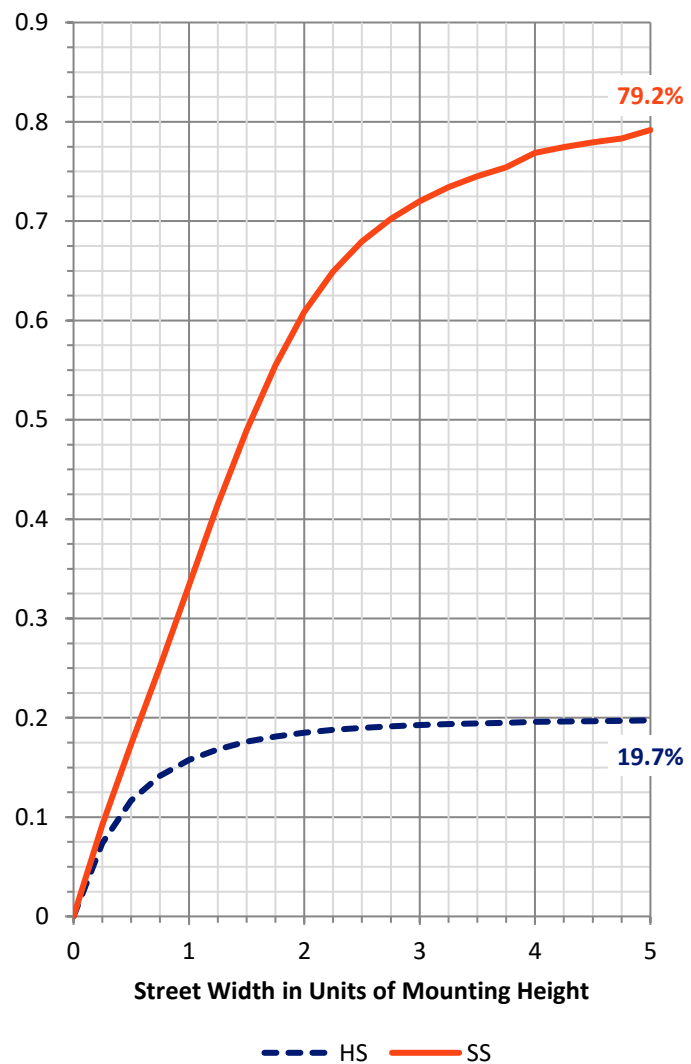
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1360.8	0.0	1360.8
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	5485.2	0.0	5485.2
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	6846.0	0.0	6846.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.3	1.4
10°-20°	279.8	4.1
20°-30°	412.2	6.0
30°-40°	529.5	7.7
40°-50°	856.4	12.5
50°-60°	1501.8	21.9
60°-70°	1879.1	27.4
70°-80°	1098.1	16.0
80°-90°	195.9	2.9
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°	6846.0	100.0
0°-180°	6846.0	100.0

**Coefficient of Utilization**



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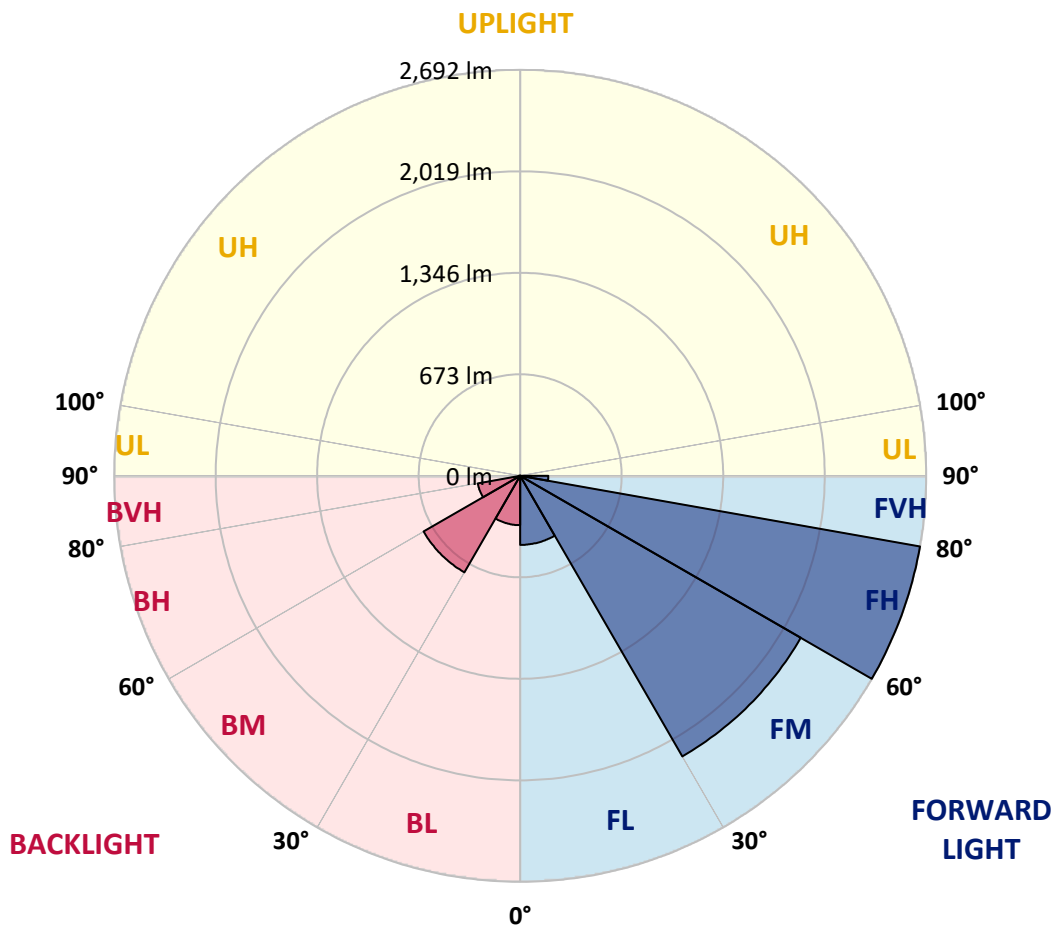
CATALOG NUMBER: GALN-SB2A-735-U-SLL-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	458.1	6.7			
FM (30°-60°)	2148.4	31.4			
FH (60°-80°)	2692.1	39.3			G2/5000
FVH (80°-90°)	186.7	2.7			G2/225
BL (0°-30°)	327.2	4.8	B1/500		
BM (30°-60°)	739.3	10.8	B1/1000		
BH (60°-80°)	285.1	4.2	B1/500		G1/500
BVH (80°-90°)	9.2	0.1			G0/10
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°
0°	948.0	948.0	948.0	948.0	948.0	948.0	948.0	948.0	948.0	948.0
2.5°	1062.1	1070.1	1088.0	1097.5	1112.1	1113.0	1113.0	1100.3	1099.8	1073.9
5°	1187.1	1205.9	1248.4	1292.2	1301.7	1304.0	1299.3	1273.8	1255.0	1204.5
7.5°	1311.1	1347.4	1412.0	1470.5	1489.4	1489.4	1478.1	1436.5	1397.9	1324.8
10°	1413.9	1459.7	1547.4	1612.9	1634.6	1629.9	1606.8	1554.5	1501.2	1412.5
12.5°	1481.8	1533.2	1629.4	1682.3	1704.4	1692.2	1665.8	1614.8	1558.7	1465.3
15°	1515.8	1569.5	1653.0	1680.8	1674.7	1662.0	1658.7	1634.2	1591.7	1504.5
17.5°	1530.4	1580.4	1638.4	1621.0	1569.1	1559.2	1592.2	1623.3	1612.9	1538.4
20°	1544.1	1586.1	1603.5	1526.2	1435.6	1426.6	1489.8	1578.5	1623.8	1570.0
22.5°	1562.9	1588.9	1553.0	1426.2	1328.5	1307.8	1377.6	1511.1	1627.1	1610.1
25°	1588.9	1596.0	1497.4	1331.4	1233.3	1212.5	1277.6	1436.1	1621.4	1653.5
27.5°	1620.0	1605.4	1444.1	1252.1	1157.4	1138.0	1203.1	1363.9	1605.4	1696.9
30°	1660.6	1617.6	1391.3	1190.8	1103.1	1089.0	1151.7	1301.7	1585.6	1752.1
32.5°	1701.6	1622.8	1342.2	1155.0	1090.9	1096.0	1147.4	1268.2	1563.9	1804.9
35°	1745.9	1639.3	1318.2	1190.4	1193.2	1238.5	1259.7	1299.3	1560.6	1876.6
37.5°	1806.3	1676.1	1346.9	1366.3	1464.4	1558.2	1540.8	1451.6	1598.8	1983.6
40°	1893.1	1740.7	1472.4	1665.8	1867.1	2019.5	1953.0	1728.5	1715.7	2137.8
42.5°	2019.5	1843.6	1695.0	2031.7	2373.2	2624.1	2445.8	2085.5	1920.4	2358.1
45°	2206.2	2010.0	1964.3	2418.0	2997.1	3392.3	3021.7	2466.1	2207.2	2691.5
47.5°	2465.1	2254.8	2216.6	2825.0	3755.5	4266.7	3660.2	2818.9	2533.5	3146.2
50°	2809.0	2584.5	2455.7	3270.2	4587.0	5158.1	4298.3	3159.4	2907.5	3701.7
52.5°	3262.7	3044.3	2734.4	3694.2	5442.0	6030.6	4939.3	3458.4	3371.6	4346.4
55°	3881.4	3736.2	3115.5	4098.8	6296.6	6908.3	5555.2	3740.4	3984.7	5112.3
57.5°	4649.2	4753.0	3664.9	4568.1	7064.8	7812.8	6173.9	4134.7	4780.8	5968.8
60°	5144.4	6105.1	4717.1	5261.8	7937.8	8835.8	7021.9	4884.5	5617.4	6275.8
62.5°	5024.6	6535.2	5977.3	6147.5	8740.5	9579.5	7852.9	5637.7	5775.0	5823.5
65°	4657.2	6188.1	5720.3	6319.7	8943.8	9621.5	8075.0	5540.6	4898.7	4754.4
67.5°	4151.7	5776.4	5109.5	5863.2	8576.4	9034.8	7661.4	4901.1	3785.7	3567.8
70°	3606.0	5320.8	4708.6	5351.0	7876.0	8012.3	6958.3	4310.6	2784.4	2409.5
72.5°	3088.2	4846.3	4434.2	4826.1	6941.7	6659.7	6042.8	3788.5	2027.5	1737.9
75°	2558.5	4146.5	4043.2	4202.6	5713.2	5245.8	5020.8	3136.7	1591.2	1257.3
77.5°	1974.2	3240.0	3477.7	3365.5	4021.5	3896.5	3891.8	2357.1	1162.5	839.0
80°	1351.2	2258.1	2717.0	2374.1	2609.9	2546.3	2931.1	1581.3	843.3	505.1
82.5°	794.2	1374.8	1891.2	1149.3	1443.2	1481.4	1745.5	769.2	496.1	116.5
85°	322.1	542.8	739.5	449.9	696.1	587.2	662.6	216.0	138.2	2.8
87.5°	81.1	173.6	121.7	50.5	80.6	74.0	58.5	26.4	5.7	0.0
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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**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
948.0	0°	948.0	948.0	948.0	948.0	948.0	948.0	948.0	948.0	948.0	948.0
1071.0	2.5°	1052.7	1041.8	1014.9	988.0	966.3	937.1	917.8	894.7	872.5	852.7
1193.7	5°	1164.0	1128.1	1079.1	1034.3	988.5	944.2	900.3	854.1	811.7	785.7
1297.4	7.5°	1254.5	1191.3	1126.2	1069.2	1014.0	962.1	904.1	848.0	781.5	746.1
1376.7	10°	1321.9	1238.9	1153.6	1088.0	1032.4	981.9	932.9	876.3	796.1	751.8
1424.8	12.5°	1366.3	1267.7	1167.7	1092.7	1030.5	991.3	969.6	947.5	867.8	815.9
1460.1	15°	1396.9	1288.0	1177.6	1081.9	1005.5	976.7	998.4	1023.9	972.9	913.1
1496.9	17.5°	1430.4	1314.4	1181.9	1052.7	956.9	944.7	1000.8	1059.7	1057.4	997.9
1531.8	20°	1465.8	1337.5	1179.0	1005.5	898.0	908.8	980.5	1048.9	1077.6	1045.6
1571.9	22.5°	1502.1	1359.7	1168.2	944.2	842.8	876.7	948.4	1008.3	1042.3	1032.4
1621.0	25°	1547.8	1390.8	1152.2	878.2	797.0	844.2	911.2	959.7	983.3	982.9
1673.8	27.5°	1602.6	1432.3	1143.7	824.9	764.5	807.4	866.8	910.2	926.7	926.7
1739.3	30°	1666.2	1481.4	1134.2	790.0	745.6	769.2	815.4	857.9	874.4	874.4
1811.0	32.5°	1737.0	1528.5	1111.6	768.7	731.5	732.0	761.2	799.9	819.7	822.5
1900.6	35°	1821.9	1579.0	1062.1	751.8	715.0	695.6	709.8	741.9	765.4	771.6
2028.4	37.5°	1933.2	1640.8	991.3	726.8	689.5	657.4	660.7	685.3	711.2	720.6
2204.8	40°	2082.7	1713.4	917.8	690.9	653.7	615.5	614.0	632.0	657.4	667.8
2443.5	42.5°	2280.3	1800.6	847.5	656.5	610.3	571.1	568.8	582.9	605.1	615.9
2758.5	45°	2533.1	1907.7	787.1	629.6	567.8	529.2	528.2	540.0	559.3	570.7
3161.7	47.5°	2884.4	2014.8	746.1	615.5	534.3	494.7	496.6	507.0	524.4	532.5
3683.8	50°	3342.4	2047.3	725.3	615.5	516.4	464.1	473.5	482.0	495.2	499.9
4309.6	52.5°	3781.9	1939.8	706.5	619.2	518.8	438.1	458.4	464.5	475.9	477.7
4889.7	55°	3997.4	1667.6	680.5	620.2	533.4	416.0	446.2	457.5	461.7	461.2
5226.5	57.5°	3923.4	1348.4	636.7	616.4	543.3	401.8	431.1	452.8	455.6	451.3
5162.3	60°	3663.5	992.8	603.2	588.6	539.5	397.6	407.9	442.4	446.6	441.0
4668.1	62.5°	3227.8	689.0	577.3	527.3	523.0	396.2	371.6	419.7	430.1	422.1
3752.2	65°	2541.1	486.7	497.1	462.2	487.2	388.6	333.9	392.4	406.5	394.3
2722.2	67.5°	1719.5	351.4	402.8	418.8	429.2	371.6	306.6	361.3	380.1	364.1
1746.9	70°	928.6	246.7	266.0	352.8	364.6	342.4	282.0	329.7	351.4	333.9
1241.8	72.5°	548.5	177.3	186.3	283.4	303.7	301.4	254.7	292.9	319.3	298.5
856.9	75°	302.3	119.8	133.0	205.6	246.7	232.5	218.8	248.1	275.0	254.7
537.2	77.5°	135.4	71.7	92.4	134.9	193.8	159.4	169.3	193.4	218.4	197.1
299.0	80°	52.3	40.1	61.3	73.6	141.0	88.2	108.9	142.4	160.4	143.4
65.1	82.5°	6.6	17.9	26.4	28.8	82.1	46.7	63.2	89.6	88.2	76.4
0.0	85°	0.0	3.3	3.8	1.9	35.4	17.0	20.8	29.2	27.4	20.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	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

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**CANDELA DISTRIBUTION (continued):**

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
948.0	0°	948.0	948.0	948.0	948.0	948.0	948.0	948.0	948.0	948.0	948.0
848.9	2.5°	825.8	808.8	800.3	793.3	799.9	803.6	803.6	819.7	829.1	832.9
769.2	5°	727.7	696.1	674.9	662.2	666.4	671.1	676.3	696.6	710.3	719.2
714.0	7.5°	650.4	602.3	572.5	557.0	559.3	562.6	566.9	586.7	600.4	612.2
703.7	10°	612.2	544.2	505.1	486.2	482.9	481.1	479.6	491.4	501.8	511.2
746.1	12.5°	614.0	519.3	471.6	448.5	438.6	427.3	418.3	420.2	426.8	438.6
822.0	15°	638.1	511.2	454.2	425.4	408.9	395.7	384.8	382.5	384.8	386.7
908.8	17.5°	670.6	510.3	439.1	403.2	386.3	375.4	365.5	362.2	362.7	365.0
966.3	20°	696.6	507.5	422.1	382.0	366.9	357.5	347.6	344.3	345.2	345.7
972.0	22.5°	710.3	503.2	403.2	360.8	348.1	338.6	329.7	329.2	329.2	332.0
941.3	25°	710.3	494.3	386.3	340.5	329.2	320.7	309.9	311.7	312.7	316.5
893.7	27.5°	693.3	477.3	372.6	323.1	311.3	302.8	292.9	295.2	296.6	300.9
846.6	30°	671.6	457.0	357.0	306.6	292.9	286.7	278.3	279.2	281.1	285.8
802.7	32.5°	648.5	432.9	344.3	290.0	276.4	271.7	262.2	263.6	265.5	270.7
759.3	35°	623.0	404.6	329.2	275.0	261.3	257.5	246.7	247.6	250.4	256.1
712.6	37.5°	596.1	381.5	314.1	260.3	246.2	242.4	231.1	232.0	235.3	241.9
663.6	40°	569.7	358.9	298.1	244.8	230.6	227.3	215.1	216.0	219.8	226.8
614.0	42.5°	540.9	341.5	277.3	228.7	213.6	210.3	199.0	200.4	204.7	211.8
568.3	45°	506.5	330.1	254.2	213.6	196.7	193.4	183.0	185.8	190.5	197.6
529.2	47.5°	471.1	325.4	234.9	197.6	179.2	176.4	167.9	172.6	177.8	183.5
495.7	50°	437.2	319.3	215.1	182.5	164.1	161.3	155.6	161.8	167.0	172.1
471.6	52.5°	398.5	306.1	197.1	169.3	151.4	150.4	147.6	153.3	158.0	162.7
450.9	55°	358.4	284.9	181.6	157.5	140.5	141.5	140.1	144.8	148.6	152.8
432.0	57.5°	323.5	258.0	169.3	144.8	131.1	133.9	132.1	134.4	136.8	142.0
409.4	60°	288.2	225.9	155.6	129.7	121.7	125.0	119.8	119.3	120.3	121.7
375.9	62.5°	240.5	192.4	138.7	116.5	111.3	112.7	102.8	95.3	95.3	96.7
329.2	65°	193.4	161.3	119.8	101.4	97.2	96.2	82.1	71.7	70.7	75.0
275.0	67.5°	158.9	133.9	100.9	84.4	81.6	82.5	72.2	61.8	60.8	65.6
224.0	70°	131.6	108.0	80.6	65.1	67.9	72.2	61.8	51.9	50.5	54.7
182.0	72.5°	104.7	84.4	61.8	48.1	56.1	61.3	50.5	41.0	40.1	43.9
140.5	75°	76.9	60.4	42.0	34.9	43.4	48.1	36.8	29.2	27.8	31.1
93.9	77.5°	47.6	34.0	26.4	20.8	29.7	32.1	19.3	17.0	16.5	18.9
57.1	80°	22.2	14.6	12.7	7.1	10.8	12.7	8.0	9.0	9.4	11.3
28.8	82.5°	6.1	2.4	0.5	0.0	0.0	3.8	1.9	3.8	4.7	7.1
2.4	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.4	4.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
0.0	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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**CANDELA DISTRIBUTION (continued):**

285°		295°	305°	315°	325°	335°	345°	355°	360°
948.0	0°	948.0	948.0	948.0	948.0	948.0	948.0	948.0	948.0
859.3	2.5°	879.1	898.0	928.1	959.3	989.9	1021.1	1051.2	1062.1
760.2	5°	797.5	840.9	900.8	964.9	1031.0	1097.9	1159.2	1187.1
657.9	7.5°	706.5	768.7	858.8	959.3	1064.4	1169.6	1266.3	1311.1
556.5	10°	609.3	688.1	790.9	926.7	1077.6	1222.9	1355.9	1413.9
467.4	12.5°	516.9	599.4	713.1	875.8	1067.3	1253.6	1413.4	1481.8
404.6	15°	439.5	512.6	635.3	815.4	1033.8	1255.4	1440.8	1515.8
369.7	17.5°	381.5	429.2	556.0	748.5	989.9	1238.0	1450.2	1530.4
350.9	20°	352.8	366.0	453.2	662.6	948.9	1221.5	1459.7	1544.1
335.8	22.5°	335.8	339.1	370.7	551.8	899.8	1216.3	1476.2	1562.9
322.1	25°	322.1	323.1	331.5	437.2	824.9	1213.0	1501.6	1588.9
308.0	27.5°	308.4	308.4	313.2	352.3	723.0	1198.9	1534.6	1620.0
293.8	30°	294.8	294.8	298.1	311.7	603.7	1171.0	1574.3	1660.6
279.7	32.5°	280.6	280.6	283.4	293.3	482.0	1136.1	1610.6	1701.6
265.0	35°	266.5	265.5	269.3	279.7	383.4	1091.8	1646.9	1745.9
250.4	37.5°	251.4	250.9	254.7	266.5	331.1	1040.4	1674.2	1806.3
235.8	40°	235.3	235.3	239.6	252.3	316.0	975.8	1717.6	1893.1
220.7	42.5°	220.7	219.8	224.5	240.1	304.7	914.0	1795.4	2019.5
207.0	45°	206.6	204.7	208.9	228.3	284.9	892.3	1940.7	2206.2
193.8	47.5°	193.4	188.6	192.4	214.1	266.9	973.4	2178.4	2465.1
182.0	50°	182.5	173.6	176.9	200.0	253.3	1149.3	2486.8	2809.0
171.2	52.5°	171.2	159.4	161.3	182.5	241.0	1316.8	2821.2	3262.7
160.4	55°	159.4	146.2	147.1	165.1	223.5	1341.8	3147.6	3881.4
148.1	57.5°	146.2	133.9	133.9	149.0	210.8	1163.0	3398.5	4649.2
133.0	60°	131.6	123.6	121.2	136.3	222.1	820.6	3427.7	5144.4
113.7	62.5°	115.5	111.3	108.0	124.0	230.6	486.2	3192.4	5024.6
89.6	65°	97.2	96.2	93.9	136.3	194.3	287.2	2740.6	4657.2
76.4	67.5°	81.6	80.2	80.2	142.9	147.6	180.6	2141.1	4151.7
65.1	70°	70.3	65.1	65.1	108.0	89.6	125.0	1495.0	3606.0
53.8	72.5°	59.0	53.3	49.5	86.3	67.0	91.5	934.3	3088.2
41.0	75°	47.2	42.9	38.2	57.1	50.0	69.3	542.8	2558.5
25.9	77.5°	34.0	32.1	26.9	42.0	36.3	50.0	323.1	1974.2
16.0	80°	17.4	17.9	17.0	24.1	24.5	34.0	183.9	1351.2
10.4	82.5°	10.4	8.0	9.0	11.8	14.1	19.3	69.3	794.2
7.5	85°	6.6	4.2	4.2	5.7	7.1	7.5	21.2	322.1
3.8	87.5°	3.3	1.4	1.9	2.8	2.4	1.9	0.9	81.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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