

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: LUMARK

Report Number: P961340

Luminaire Tested: **NAV-SB2A-727-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P961340  
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: LUMARK  
Catalog Number: NAV-SB2A-727-U-SLR-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

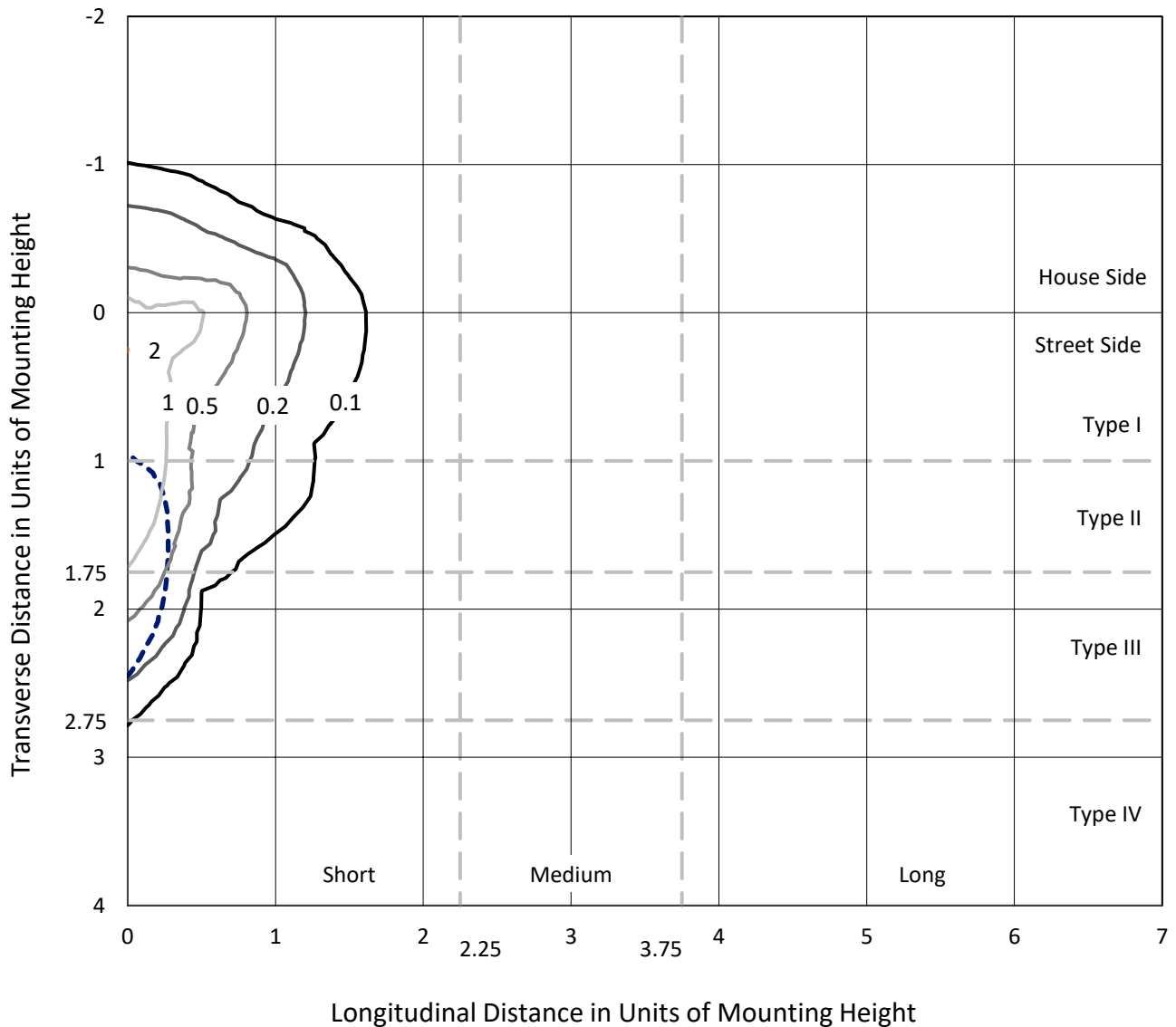
Lumens per Lamp: N/A  
Luminaire Lumens: 6508.7 lumens  
Efficiency: N/A  
Efficacy: 113.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

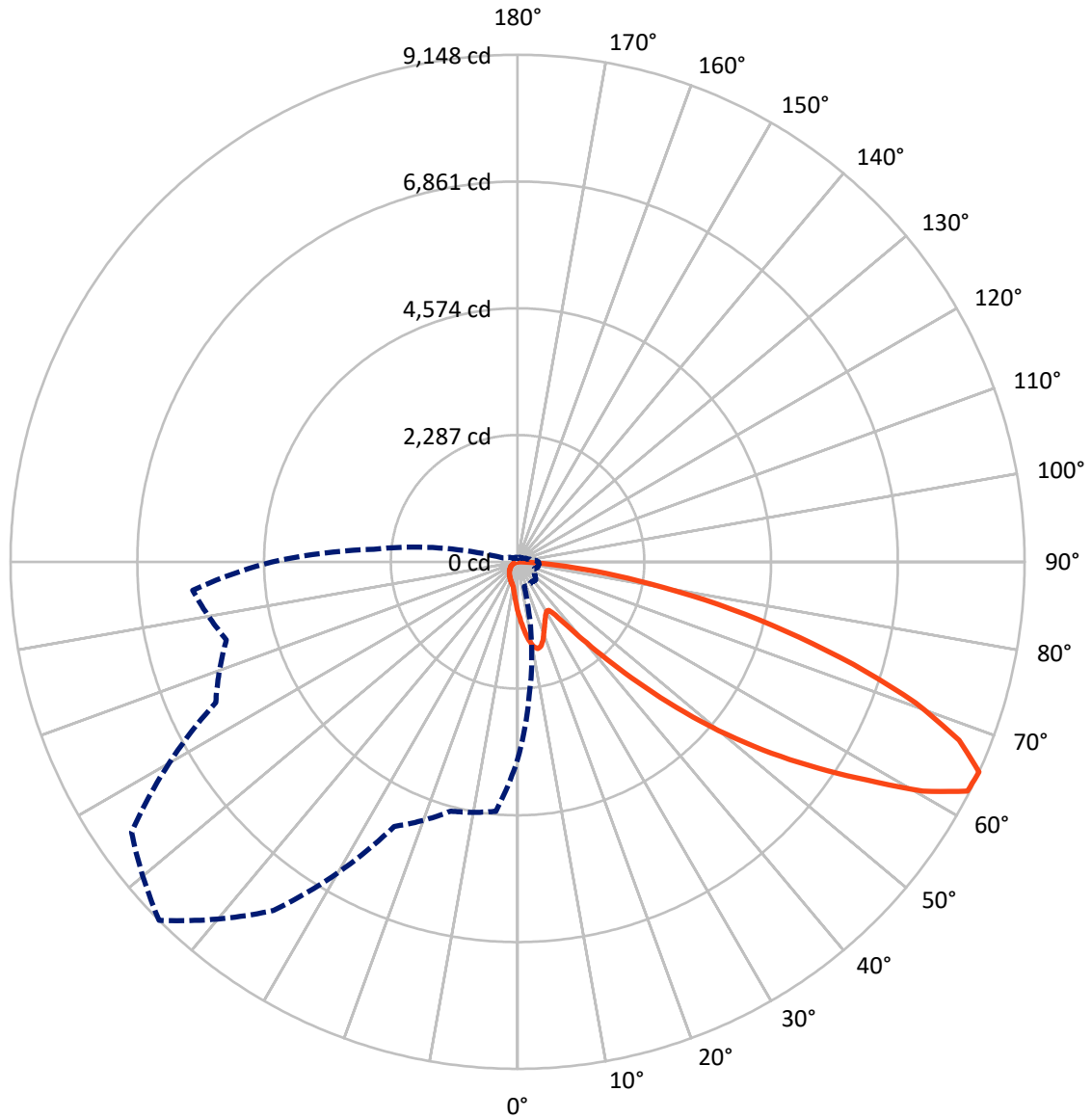
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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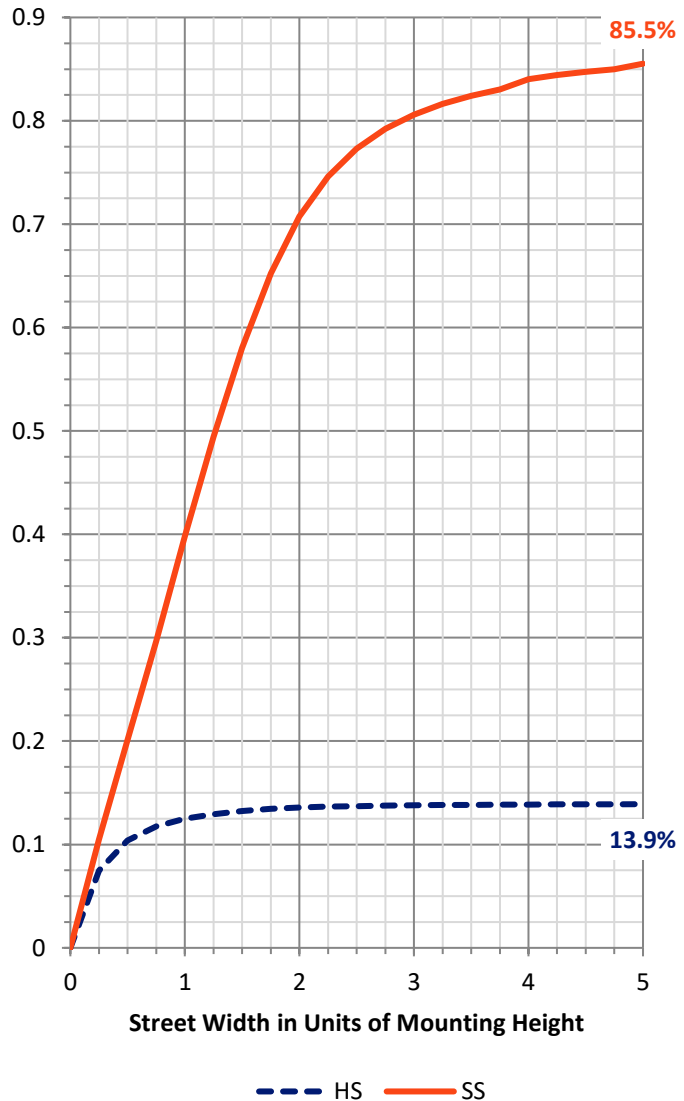
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	911.5	0.0	911.5
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	5597.2	0.0	5597.2
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	6508.7	0.0	6508.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.7	1.4
10°-20°	266.0	4.1
20°-30°	391.9	6.0
30°-40°	503.4	7.7
40°-50°	814.2	12.5
50°-60°	1427.8	21.9
60°-70°	1786.5	27.4
70°-80°	1044.0	16.0
80°-90°	186.3	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°	6508.7	100.0
0°-180°	6508.7	100.0

**Coefficient of Utilization**

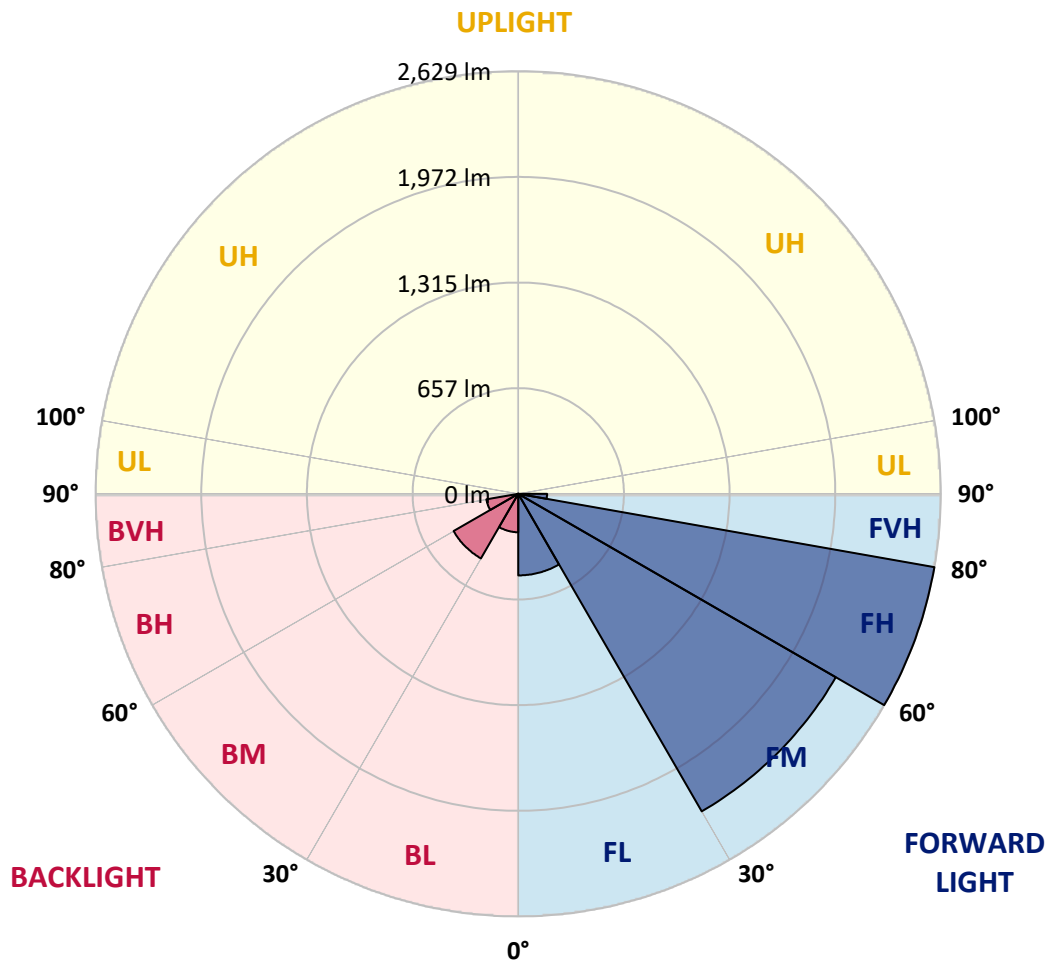


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	507.7	7.8			
FM (30°-60°)	2281.2	35.0			
FH (60°-80°)	2629.2	40.4			G2/5000
FVH (80°-90°)	179.1	2.8			G2/225
BL (0°-30°)	238.9	3.7	B1/500		
BM (30°-60°)	464.2	7.1	B1/1000		
BH (60°-80°)	201.3	3.1	B1/500		G1/500
BVH (80°-90°)	7.2	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°	90°
0°	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3
2.5°	1018.2	1000.8	990.5	964.9	939.4	918.7	890.9	872.6	850.5	829.5	810.7
5°	1134.9	1106.6	1072.6	1025.9	983.3	939.8	897.7	856.0	812.0	771.6	747.0
7.5°	1233.5	1192.7	1132.6	1070.7	1016.5	964.0	914.7	859.6	806.2	743.0	709.3
10°	1308.8	1256.9	1177.9	1096.8	1034.4	981.5	933.6	886.9	833.1	756.9	714.7
12.5°	1354.5	1299.0	1205.3	1110.2	1038.9	979.7	942.5	921.9	900.8	825.0	775.7
15°	1388.2	1328.1	1224.6	1119.6	1028.6	955.9	928.6	949.3	973.4	925.1	868.1
17.5°	1423.2	1360.0	1249.7	1123.6	1000.8	909.8	898.1	951.5	1007.5	1005.3	948.7
20°	1456.3	1393.6	1271.6	1120.9	955.9	853.7	864.1	932.2	997.2	1024.6	994.0
22.5°	1494.4	1428.1	1292.7	1110.7	897.7	801.2	833.5	901.7	958.7	991.0	981.5
25°	1541.1	1471.6	1322.2	1095.4	834.9	757.8	802.6	866.3	912.5	934.9	934.4
27.5°	1591.3	1523.7	1361.7	1087.3	784.2	726.8	767.6	824.1	865.4	881.1	881.1
30°	1653.6	1584.1	1408.4	1078.4	751.0	708.9	731.3	775.2	815.6	831.3	831.3
32.5°	1721.8	1651.4	1453.2	1056.9	730.8	695.5	695.9	723.6	760.4	779.3	782.0
35°	1807.0	1732.1	1501.2	1009.7	714.7	679.8	661.3	674.9	705.3	727.7	733.6
37.5°	1928.5	1837.9	1559.9	942.5	691.0	655.5	625.0	628.2	651.5	676.2	685.1
40°	2096.2	1980.1	1629.0	872.6	656.9	621.5	585.2	583.8	600.9	625.0	634.9
42.5°	2323.1	2168.0	1712.0	805.8	624.1	580.3	543.0	540.8	554.2	575.2	585.6
45°	2622.6	2408.2	1813.7	748.4	598.6	539.9	503.1	502.1	513.4	531.8	542.5
47.5°	3006.0	2742.3	1915.5	709.3	585.2	508.0	470.4	472.1	482.1	498.6	506.2
50°	3502.3	3177.7	1946.5	689.6	585.2	491.0	441.2	450.2	458.3	470.8	475.3
52.5°	4097.3	3595.6	1844.2	671.7	588.8	493.2	416.6	435.8	441.7	452.4	454.2
55°	4648.9	3800.5	1585.5	647.0	589.6	507.2	395.4	424.1	434.9	439.0	438.5
57.5°	4969.0	3730.1	1282.0	605.4	586.0	516.5	382.0	409.8	430.5	433.2	429.1
60°	4908.0	3483.1	943.8	573.5	559.5	512.9	378.0	387.9	420.6	424.7	419.2
62.5°	4438.1	3068.7	655.1	548.8	501.3	497.2	376.7	353.3	399.0	409.0	401.3
65°	3567.3	2415.9	462.7	472.6	439.4	463.2	369.5	317.4	373.1	386.5	374.8
67.5°	2588.1	1634.8	334.0	382.9	398.2	408.1	353.3	291.4	343.5	361.4	346.1
70°	1660.8	882.8	234.5	252.9	335.4	346.6	325.5	268.1	313.4	334.0	317.4
72.5°	1180.6	521.5	168.6	177.1	269.5	288.7	286.5	242.1	278.5	303.6	283.8
75°	814.7	287.4	113.9	126.5	195.5	234.5	221.1	208.1	235.9	261.4	242.1
77.5°	510.8	128.6	68.2	87.8	128.2	184.3	151.6	160.9	183.9	207.6	187.5
80°	284.2	49.8	38.1	58.3	69.9	134.1	83.8	103.6	135.4	152.4	136.3
82.5°	61.9	6.3	17.0	25.1	27.4	78.0	44.4	60.1	85.2	83.8	72.7
85°	0.0	0.0	3.2	3.6	1.7	33.6	16.1	19.7	27.8	26.0	19.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3
2.5°	807.1	785.2	769.0	761.0	754.2	760.4	764.0	764.0	779.3	788.2	791.8
5°	731.3	691.9	661.8	641.6	629.6	633.6	638.1	643.0	662.3	675.3	683.8
7.5°	678.9	618.3	572.6	544.4	529.5	531.8	534.9	538.9	557.8	570.8	582.0
10°	669.0	582.0	517.4	480.2	462.3	459.1	457.4	456.0	467.2	477.0	486.1
12.5°	709.3	583.8	493.6	448.3	426.4	417.0	406.2	397.7	399.5	405.8	417.0
15°	781.6	606.7	486.1	431.8	404.5	388.8	376.2	365.9	363.7	365.9	367.7
17.5°	864.1	637.7	485.1	417.5	383.3	367.3	356.9	347.5	344.4	344.8	347.1
20°	918.7	662.3	482.5	401.3	363.2	348.8	339.9	330.5	327.3	328.2	328.6
22.5°	924.1	675.3	478.5	383.3	343.0	330.9	322.0	313.4	312.9	312.9	315.7
25°	894.9	675.3	469.9	367.3	323.7	312.9	304.9	294.6	296.4	297.2	300.8
27.5°	849.7	659.1	453.8	354.2	307.2	295.9	287.8	278.5	280.6	282.1	286.1
30°	804.8	638.5	434.5	339.4	291.4	278.5	272.6	264.6	265.5	267.2	271.7
32.5°	763.1	616.5	411.6	327.3	275.7	262.7	258.3	249.3	250.6	252.5	257.4
35°	721.9	592.3	384.7	312.9	261.4	248.4	244.8	234.5	235.4	238.1	243.4
37.5°	677.5	566.7	362.7	298.6	247.5	234.0	230.4	219.7	220.6	223.8	230.0
40°	630.9	541.6	341.2	283.4	232.7	219.2	216.2	204.5	205.4	209.0	215.7
42.5°	583.8	514.3	324.6	263.6	217.5	203.2	200.0	189.2	190.5	194.6	201.3
45°	540.3	481.5	313.9	241.7	203.2	187.0	183.9	173.9	176.7	181.1	187.9
47.5°	503.1	447.9	309.3	223.2	187.9	170.4	167.7	159.6	164.1	169.0	174.5
50°	471.3	415.6	303.6	204.5	173.5	156.0	153.3	148.0	153.8	158.8	163.7
52.5°	448.3	378.8	291.0	187.5	160.9	143.9	143.0	140.3	145.8	150.2	154.7
55°	428.7	340.8	270.8	172.6	149.8	133.7	134.5	133.1	137.7	141.2	145.2
57.5°	410.7	307.6	245.3	160.9	137.7	124.6	127.3	125.6	127.8	130.1	135.0
60°	389.2	274.0	214.7	148.0	123.3	115.7	118.8	113.9	113.5	114.3	115.7
62.5°	357.3	228.7	183.0	131.8	110.7	105.8	107.2	97.8	90.6	90.6	91.9
65°	312.9	183.9	153.3	113.9	96.5	92.4	91.4	78.0	68.2	67.2	71.3
67.5°	261.4	151.1	127.3	95.9	80.3	77.6	78.5	68.6	58.7	57.8	62.3
70°	213.0	125.0	102.7	76.7	61.9	64.6	68.6	58.7	49.3	48.0	52.0
72.5°	173.1	99.5	80.3	58.7	45.7	53.4	58.3	48.0	39.1	38.1	41.7
75°	133.7	73.1	57.4	39.9	33.2	41.2	45.7	35.0	27.8	26.4	29.6
77.5°	89.3	45.3	32.3	25.1	19.7	28.3	30.4	18.3	16.1	15.7	17.9
80°	54.2	21.1	13.9	12.1	6.8	10.4	12.1	7.6	8.5	8.9	10.8
82.5°	27.4	5.8	2.3	0.4	0.0	0.0	3.6	1.7	3.6	4.5	6.8
85°	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.3	4.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
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°	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3
2.5°	816.9	835.8	853.7	882.4	912.0	941.2	970.8	999.5	1009.7	1017.4	1034.4
5°	722.8	758.2	799.5	856.4	917.4	980.2	1043.9	1102.1	1128.6	1146.6	1186.8
7.5°	625.5	671.7	730.8	816.5	912.0	1012.0	1112.0	1203.9	1246.5	1281.0	1342.4
10°	529.1	579.3	654.2	751.9	881.1	1024.6	1162.7	1289.1	1344.3	1387.7	1471.2
12.5°	444.3	491.4	569.9	677.9	832.6	1014.6	1191.8	1343.8	1408.9	1457.7	1549.2
15°	384.7	417.9	487.4	603.9	775.2	982.9	1193.6	1369.8	1441.1	1492.2	1571.6
17.5°	351.6	362.7	408.1	528.7	711.6	941.2	1177.0	1378.8	1455.0	1502.5	1557.7
20°	333.6	335.4	348.0	430.9	630.0	902.1	1161.3	1387.7	1468.0	1507.9	1524.5
22.5°	319.3	319.3	322.4	352.4	524.6	855.6	1156.4	1403.4	1485.9	1510.6	1476.5
25°	306.3	306.3	307.2	315.2	415.6	784.2	1153.2	1427.6	1510.6	1517.3	1423.6
27.5°	292.8	293.3	293.3	297.8	335.0	687.4	1139.8	1459.1	1540.2	1526.3	1373.0
30°	279.3	280.2	280.2	283.4	296.4	573.9	1113.4	1496.7	1578.8	1537.9	1322.8
32.5°	265.9	266.8	266.8	269.5	278.9	458.3	1080.1	1531.2	1617.8	1542.9	1276.1
35°	251.9	253.4	252.5	256.0	265.9	364.5	1038.0	1565.8	1659.9	1558.6	1253.3
37.5°	238.1	239.0	238.5	242.1	253.4	314.8	989.1	1591.7	1717.3	1593.6	1280.6
40°	224.2	223.8	223.8	227.8	239.8	300.4	927.7	1633.0	1799.8	1655.0	1399.8
42.5°	209.8	209.8	209.0	213.4	228.3	289.7	869.0	1707.0	1920.0	1752.7	1611.5
45°	196.8	196.4	194.6	198.6	217.0	270.8	848.4	1845.1	2097.6	1911.0	1867.5
47.5°	184.3	183.9	179.4	183.0	203.6	253.8	925.5	2071.1	2343.7	2143.7	2107.4
50°	173.1	173.5	165.0	168.1	190.1	240.8	1092.8	2364.4	2670.5	2457.1	2334.7
52.5°	162.8	162.8	151.6	153.3	173.5	229.1	1251.9	2682.2	3102.0	2894.3	2599.7
55°	152.4	151.6	139.0	139.9	156.9	212.6	1275.6	2992.5	3690.2	3552.1	2962.0
57.5°	140.8	139.0	127.3	127.3	141.7	200.4	1105.7	3231.1	4420.2	4518.8	3484.4
60°	126.5	125.0	117.5	115.2	129.6	211.2	780.2	3258.9	4891.0	5804.4	4484.8
62.5°	108.0	109.9	105.8	102.7	117.9	219.2	462.3	3035.1	4777.1	6213.2	5682.8
65°	85.2	92.4	91.4	89.3	129.6	184.7	273.1	2605.5	4427.8	5883.3	5438.4
67.5°	72.7	77.6	76.3	76.3	135.8	140.3	171.7	2035.6	3947.2	5491.8	4857.8
70°	61.9	66.8	61.9	61.9	102.7	85.2	118.8	1421.4	3428.3	5058.7	4476.7
72.5°	51.1	56.1	50.6	47.0	82.1	63.7	87.0	888.3	2936.0	4607.6	4215.7
75°	39.1	44.8	40.8	36.3	54.2	47.6	65.9	516.1	2432.5	3942.2	3844.0
77.5°	24.7	32.3	30.4	25.5	39.9	34.5	47.6	307.2	1877.0	3080.4	3306.3
80°	15.3	16.6	17.0	16.1	22.9	23.3	32.3	174.9	1284.6	2146.9	2583.1
82.5°	9.8	9.8	7.6	8.5	11.2	13.4	18.3	65.9	755.1	1307.1	1798.1
85°	7.2	6.3	4.0	4.0	5.3	6.8	7.2	20.2	306.3	516.1	703.0
87.5°	3.6	3.2	1.3	1.7	2.7	2.3	1.7	0.9	77.1	165.0	115.7
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°	901.3	901.3	901.3	901.3	901.3	901.3	901.3	901.3
2.5°	1043.3	1057.3	1058.2	1058.2	1046.1	1045.6	1021.0	1018.2
5°	1228.6	1237.6	1239.7	1235.3	1211.0	1193.2	1145.1	1134.9
7.5°	1398.1	1416.0	1416.0	1405.3	1365.8	1329.0	1259.5	1233.5
10°	1533.5	1554.1	1549.6	1527.7	1477.8	1427.2	1343.0	1308.8
12.5°	1599.4	1620.4	1608.8	1583.7	1535.2	1481.9	1393.2	1354.5
15°	1598.1	1592.2	1580.1	1577.0	1553.7	1513.3	1430.4	1388.2
17.5°	1541.1	1491.8	1482.4	1513.7	1543.3	1533.5	1462.7	1423.2
20°	1451.0	1364.9	1356.4	1416.4	1500.7	1543.8	1492.7	1456.3
22.5°	1355.9	1263.1	1243.3	1309.7	1436.6	1546.9	1530.7	1494.4
25°	1265.8	1172.5	1152.8	1214.6	1365.3	1541.5	1572.0	1541.1
27.5°	1190.4	1100.3	1082.0	1143.8	1296.7	1526.3	1613.2	1591.3
30°	1132.2	1048.8	1035.4	1094.9	1237.6	1507.5	1665.7	1653.6
32.5°	1098.1	1037.1	1042.0	1090.9	1205.7	1486.9	1716.0	1721.8
35°	1131.7	1134.4	1177.4	1197.6	1235.3	1483.7	1784.1	1807.0
37.5°	1299.0	1392.3	1481.4	1464.8	1380.2	1520.1	1885.9	1928.5
40°	1583.7	1775.2	1920.0	1856.8	1643.3	1631.2	2032.6	2096.2
42.5°	1931.6	2256.2	2494.8	2325.3	1982.8	1825.8	2241.9	2323.1
45°	2298.9	2849.5	3225.3	2872.8	2344.6	2098.5	2558.9	2622.6
47.5°	2685.8	3570.5	4056.5	3479.9	2680.0	2408.8	2991.2	3006.0
50°	3109.1	4361.0	4904.0	4086.6	3003.8	2764.3	3519.3	3502.3
52.5°	3512.2	5173.9	5733.5	4695.9	3288.0	3205.5	4132.3	4097.3
55°	3896.9	5986.4	6567.9	5281.5	3556.1	3788.4	4860.4	4648.9
57.5°	4343.0	6716.8	7428.0	5869.8	3931.0	4545.3	5674.8	4969.0
60°	5002.6	7546.8	8400.5	6676.0	4644.0	5340.8	5966.6	4908.0
62.5°	5844.7	8309.9	9107.6	7466.1	5360.0	5490.5	5536.6	4438.1
65°	6008.3	8503.2	9147.5	7677.2	5267.6	4657.4	4520.1	3567.3
67.5°	5574.4	8153.9	8589.7	7284.1	4659.6	3599.2	3392.0	2588.1
70°	5087.4	7488.0	7617.6	6615.5	4098.3	2647.3	2290.8	1660.8
72.5°	4588.3	6599.8	6331.6	5745.1	3601.8	1927.6	1652.3	1180.6
75°	3995.6	5431.8	4987.3	4773.5	2982.2	1512.9	1195.4	814.7
77.5°	3199.6	3823.4	3704.6	3700.0	2241.1	1105.3	797.7	510.8
80°	2257.2	2481.3	2420.8	2786.7	1503.5	801.8	480.2	284.2
82.5°	1092.8	1372.1	1408.4	1659.5	731.3	471.7	110.7	61.9
85°	427.7	661.8	558.2	630.0	205.4	131.4	2.7	0.0
87.5°	48.0	76.7	70.4	55.6	25.1	5.3	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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