

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: P963944

Luminaire Tested: **NAV-SB3B-722-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963944
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-SB3B-722-U-SLR-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 450mA 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: 10918.3 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

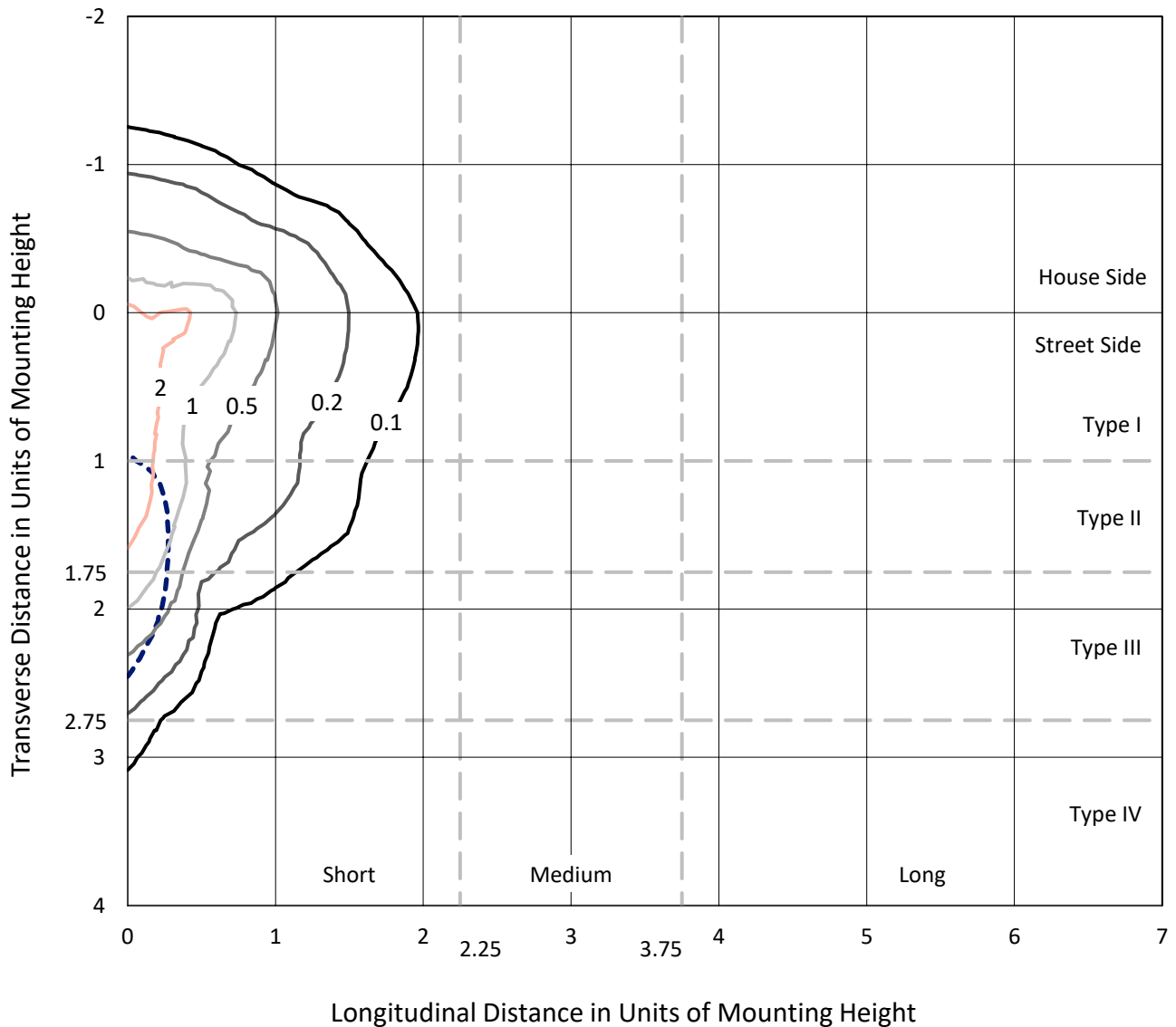
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

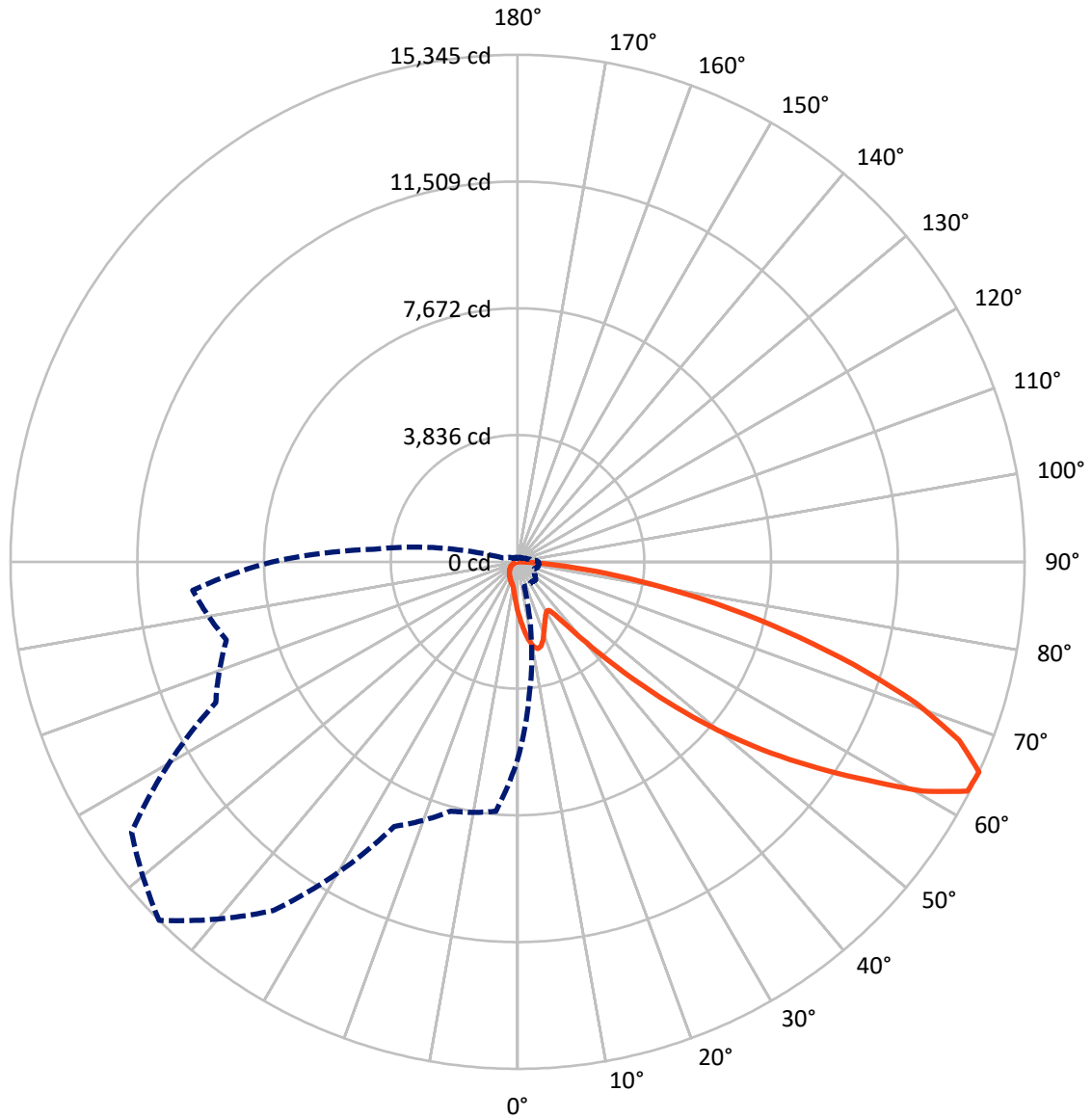
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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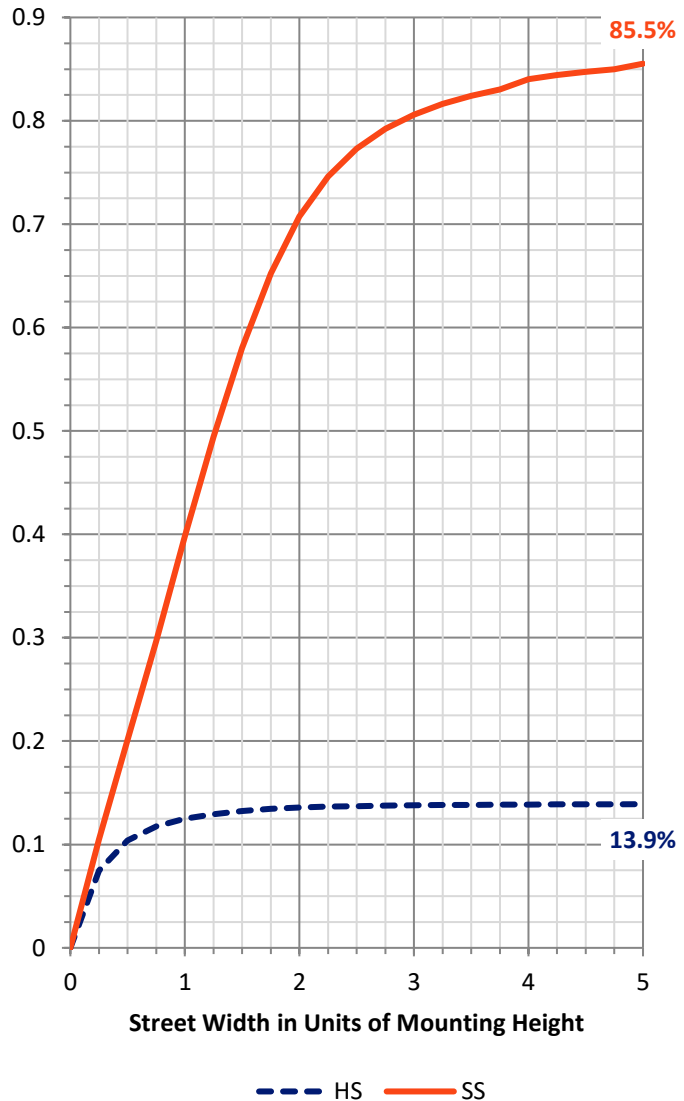
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1529.0	0.0	1529.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	9389.3	0.0	9389.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	10918.3	0.0	10918.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.8	1.4
10°-20°	446.2	4.1
20°-30°	657.3	6.0
30°-40°	844.5	7.7
40°-50°	1365.8	12.5
50°-60°	2395.1	21.9
60°-70°	2996.9	27.4
70°-80°	1751.2	16.0
80°-90°	312.4	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°	10918.3	100.0
0°-180°	10918.3	100.0

Coefficient of Utilization



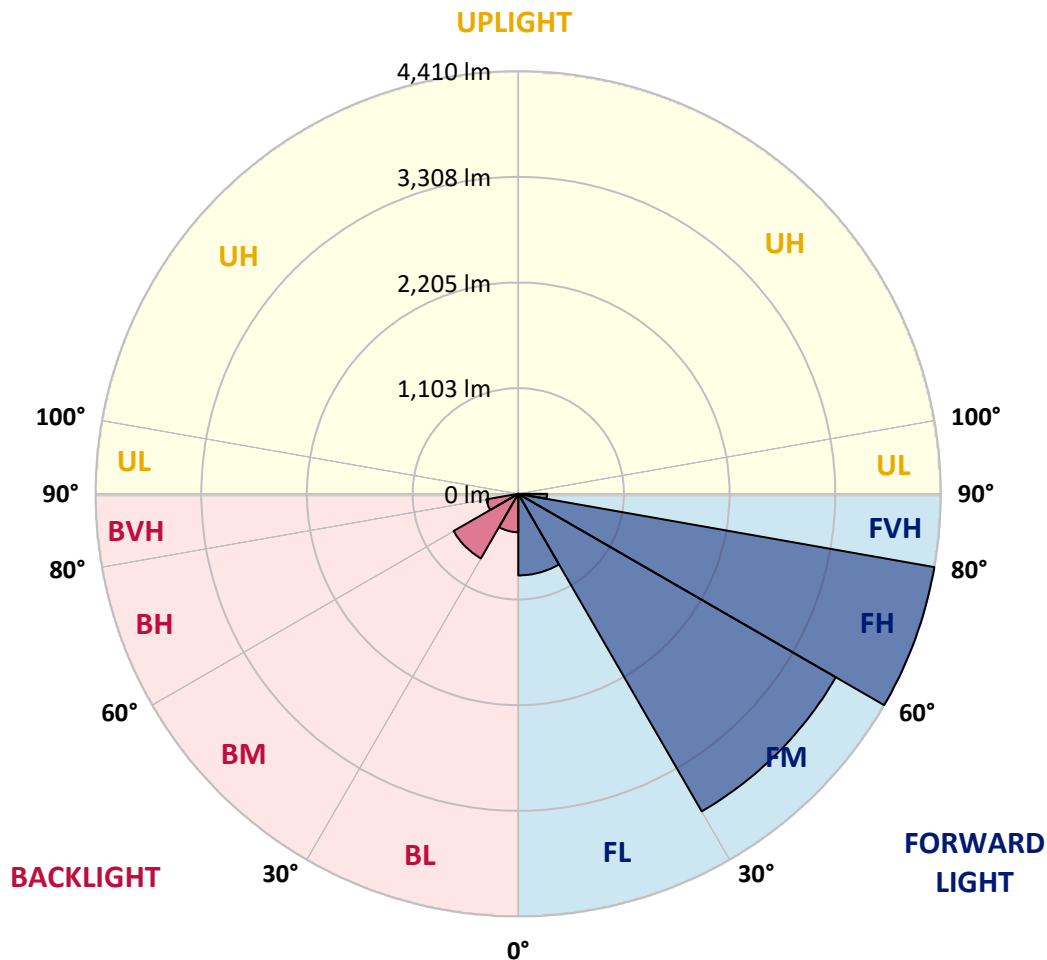
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	851.6	7.8			
FM (30°-60°)	3826.7	35.0			
FH (60°-80°)	4410.5	40.4			G2/5000
FVH (80°-90°)	300.4	2.8			G3/500
BL (0°-30°)	400.8	3.7	B1/500		
BM (30°-60°)	778.6	7.1	B1/1000		
BH (60°-80°)	337.6	3.1	B1/500		G1/500
BVH (80°-90°)	12.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9
2.5°	1708.2	1678.8	1661.5	1618.7	1575.7	1541.2	1494.6	1463.7	1426.8	1391.5	1359.9
5°	1903.7	1856.3	1799.2	1721.0	1649.4	1576.6	1505.8	1435.8	1362.1	1294.5	1253.1
7.5°	2069.2	2000.7	1899.9	1796.1	1705.2	1617.1	1534.4	1441.9	1352.4	1246.3	1189.9
10°	2195.5	2108.3	1975.9	1839.8	1735.2	1646.5	1566.0	1487.8	1397.5	1269.7	1198.9
12.5°	2272.2	2179.0	2021.8	1862.3	1742.7	1643.5	1581.1	1546.4	1511.1	1384.0	1301.2
15°	2328.7	2227.8	2054.1	1878.1	1725.5	1603.6	1557.7	1592.3	1632.9	1551.7	1456.2
17.5°	2387.3	2281.3	2096.2	1884.9	1678.8	1526.1	1506.5	1596.0	1690.1	1686.3	1591.5
20°	2443.0	2337.7	2133.1	1880.4	1603.6	1432.1	1449.5	1563.7	1672.8	1718.7	1667.6
22.5°	2506.9	2395.6	2168.5	1863.1	1505.8	1344.1	1398.3	1512.6	1608.1	1662.2	1646.5
25°	2585.2	2468.6	2218.1	1837.5	1400.6	1271.1	1346.3	1453.1	1530.6	1568.2	1567.5
27.5°	2669.4	2555.8	2284.3	1824.0	1315.5	1219.2	1287.7	1382.4	1451.7	1477.9	1477.9
30°	2774.0	2657.4	2362.5	1808.9	1259.8	1189.2	1226.7	1300.5	1368.2	1394.5	1394.5
32.5°	2888.2	2770.2	2437.8	1772.8	1226.0	1166.6	1167.4	1214.0	1275.6	1307.3	1311.8
35°	3031.2	2905.6	2518.2	1693.8	1198.9	1140.3	1109.5	1132.0	1183.2	1220.8	1230.5
37.5°	3235.0	3083.1	2616.7	1581.1	1159.1	1099.6	1048.5	1053.8	1092.9	1134.3	1149.3
40°	3516.4	3321.5	2732.5	1463.7	1101.9	1042.5	981.5	979.3	1007.9	1048.5	1065.1
42.5°	3896.9	3636.7	2871.7	1351.7	1047.0	973.3	910.8	907.1	929.7	965.0	982.4
45°	4399.4	4039.8	3042.5	1255.3	1004.1	905.6	843.9	842.4	861.2	892.1	910.1
47.5°	5042.5	4600.2	3213.2	1189.9	981.5	852.2	789.0	792.0	808.5	836.4	849.2
50°	5875.1	5330.5	3265.1	1156.8	981.5	823.6	740.2	755.1	768.7	789.8	797.2
52.5°	6873.2	6031.5	3093.7	1126.7	987.6	827.4	698.7	731.1	740.9	758.9	762.0
55°	7798.4	6375.3	2659.7	1085.4	989.1	850.6	663.4	711.6	729.6	736.4	735.6
57.5°	8335.4	6257.2	2150.4	1015.4	983.1	866.5	640.8	687.5	722.1	726.6	719.9
60°	8233.1	5842.7	1583.3	962.0	938.7	860.5	634.1	650.6	705.5	712.3	703.3
62.5°	7444.9	5147.8	1098.9	920.7	840.9	834.1	631.8	592.7	669.4	685.9	673.2
65°	5984.2	4052.6	776.2	792.7	737.1	776.9	619.8	532.5	625.8	648.3	628.8
67.5°	4341.5	2742.4	560.4	642.4	667.9	684.5	592.7	488.9	576.2	606.3	580.7
70°	2786.0	1481.0	393.4	424.2	562.6	581.4	546.0	449.8	525.7	560.4	532.5
72.5°	1980.4	874.7	282.8	297.1	452.0	484.4	480.6	406.2	467.1	509.2	476.1
75°	1366.6	482.2	191.1	212.1	327.9	393.4	370.8	349.0	395.6	438.5	406.2
77.5°	856.7	215.9	114.3	147.4	215.1	309.1	254.2	270.0	308.4	348.3	314.4
80°	476.8	83.5	64.0	97.8	117.4	224.9	140.6	173.7	227.1	255.7	228.7
82.5°	103.8	10.6	28.6	42.1	45.9	130.9	74.4	100.8	142.9	140.6	121.9
85°	0.0	0.0	5.2	6.0	3.0	56.4	27.1	33.1	46.6	43.7	33.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	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°	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9
2.5°	1353.9	1317.0	1290.0	1276.4	1265.2	1275.6	1281.7	1281.7	1307.3	1322.2	1328.3
5°	1226.7	1160.6	1110.2	1076.4	1056.1	1062.8	1070.3	1078.6	1110.9	1132.7	1147.1
7.5°	1138.8	1037.2	960.5	913.1	888.3	892.1	897.3	904.0	935.7	957.5	976.3
10°	1122.2	976.3	868.0	805.5	775.5	770.2	767.2	765.0	783.7	800.3	815.4
12.5°	1189.9	979.3	828.1	752.1	715.3	699.5	681.4	667.2	670.1	680.7	699.5
15°	1311.0	1017.6	815.4	724.4	678.4	652.1	631.1	613.8	610.0	613.8	616.7
17.5°	1449.5	1069.6	813.8	700.3	643.1	616.0	598.7	582.9	577.7	578.4	582.2
20°	1541.2	1110.9	809.3	673.2	609.3	585.2	570.1	554.3	549.1	550.6	551.3
22.5°	1550.2	1132.7	802.6	643.1	575.4	555.1	540.1	525.7	525.0	525.0	529.5
25°	1501.3	1132.7	788.2	616.0	543.0	525.0	511.5	494.2	497.1	498.7	504.7
27.5°	1425.4	1105.7	761.2	594.2	515.3	496.4	482.9	467.1	470.9	473.1	479.9
30°	1350.1	1071.0	728.9	569.4	488.9	467.1	457.4	443.7	445.3	448.3	455.8
32.5°	1280.1	1034.2	690.4	549.1	462.6	440.7	433.3	418.2	420.5	423.4	431.7
35°	1210.9	993.6	645.3	525.0	438.5	416.7	410.7	393.4	394.9	399.4	408.5
37.5°	1136.5	950.7	608.5	500.9	415.2	392.6	386.6	368.6	370.0	375.4	385.8
40°	1058.3	908.6	572.4	475.4	390.3	367.8	362.5	343.0	344.5	350.5	361.8
42.5°	979.3	862.7	544.6	442.3	364.8	340.7	335.5	317.4	319.7	326.5	337.7
45°	906.3	807.8	526.5	405.4	340.7	313.6	308.4	291.8	296.3	303.9	315.2
47.5°	843.9	751.4	519.0	374.5	315.2	285.8	281.3	267.7	275.3	283.5	292.6
50°	790.5	697.2	509.2	343.0	291.1	261.8	257.3	248.3	258.0	266.3	274.5
52.5°	752.1	635.6	488.1	314.4	270.0	241.5	240.0	235.4	244.5	251.9	259.5
55°	719.0	571.6	454.3	289.6	251.2	224.2	225.6	223.3	230.9	237.0	243.7
57.5°	689.0	516.0	411.4	270.0	230.9	209.1	213.6	210.6	214.3	218.1	226.4
60°	652.8	459.6	360.3	248.3	206.8	194.0	199.4	191.1	190.3	191.8	194.0
62.5°	599.4	383.6	306.9	221.1	185.8	177.5	179.8	164.0	151.9	151.9	154.2
65°	525.0	308.4	257.3	191.1	161.7	155.0	153.4	130.9	114.3	112.9	119.6
67.5°	438.5	253.5	213.6	160.9	134.7	130.1	131.6	115.1	98.5	97.1	104.6
70°	357.3	209.8	172.2	128.6	103.8	108.3	115.1	98.5	82.7	80.5	87.2
72.5°	290.4	167.0	134.7	98.5	76.7	89.5	97.8	80.5	65.4	64.0	69.9
75°	224.2	122.6	96.2	66.9	55.7	69.2	76.7	58.6	46.6	44.4	49.6
77.5°	149.6	76.0	54.1	42.1	33.1	47.4	51.1	30.9	27.1	26.3	30.1
80°	91.0	35.4	23.3	20.3	11.3	17.3	20.3	12.8	14.2	15.1	18.0
82.5°	45.9	9.7	3.8	0.7	0.0	0.0	6.0	3.0	6.0	7.5	11.3
85°	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.8	6.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9
2.5°	1370.4	1402.0	1432.1	1480.2	1529.9	1578.8	1628.4	1676.6	1693.8	1706.6	1735.2
5°	1212.5	1271.9	1341.1	1436.6	1538.9	1644.2	1751.0	1848.8	1893.2	1923.3	1991.0
7.5°	1049.3	1126.7	1226.0	1369.7	1529.9	1697.6	1865.4	2019.6	2091.0	2148.9	2251.9
10°	887.5	971.8	1097.4	1261.4	1477.9	1718.7	1950.4	2162.4	2255.0	2327.9	2467.8
12.5°	745.4	824.4	956.0	1137.2	1396.8	1702.1	1999.3	2254.2	2363.2	2445.2	2598.7
15°	645.3	701.0	817.6	1013.1	1300.5	1648.7	2002.2	2297.8	2417.5	2503.2	2636.3
17.5°	589.7	608.5	684.5	886.8	1193.7	1578.8	1974.5	2312.9	2440.7	2520.5	2613.0
20°	559.6	562.6	583.6	722.8	1056.8	1513.3	1948.1	2327.9	2462.6	2529.5	2557.4
22.5°	535.6	535.6	540.8	591.2	880.1	1435.1	1939.8	2354.2	2492.7	2534.0	2476.8
25°	513.7	513.7	515.3	528.8	697.2	1315.5	1934.6	2394.9	2534.0	2545.3	2388.1
27.5°	491.2	491.9	491.9	499.5	561.9	1153.0	1911.9	2447.5	2583.6	2560.3	2303.1
30°	468.6	470.1	470.1	475.4	497.1	962.8	1867.7	2510.7	2648.4	2579.9	2218.8
32.5°	446.1	447.5	447.5	452.0	467.8	768.7	1812.0	2568.6	2713.8	2588.1	2140.6
35°	422.7	425.0	423.4	429.5	446.1	611.5	1741.3	2626.6	2784.5	2614.5	2102.3
37.5°	399.4	400.9	400.2	406.2	425.0	528.0	1659.3	2670.1	2880.8	2673.2	2148.2
40°	376.1	375.4	375.4	382.1	402.4	504.0	1556.3	2739.3	3019.1	2776.2	2348.3
42.5°	352.0	352.0	350.5	358.0	382.8	485.8	1457.7	2863.4	3220.8	2940.2	2703.2
45°	330.2	329.4	326.5	333.2	364.1	454.3	1423.1	3095.1	3518.6	3205.7	3132.7
47.5°	309.1	308.4	300.8	306.9	341.5	425.7	1552.5	3474.2	3931.5	3596.1	3535.1
50°	290.4	291.1	276.8	282.1	318.9	404.0	1833.0	3966.1	4479.9	4121.8	3916.5
52.5°	273.1	273.1	254.2	257.3	291.1	384.4	2100.0	4499.4	5203.4	4855.2	4361.0
55°	255.7	254.2	233.2	234.6	263.2	356.5	2139.9	5019.9	6190.3	5958.6	4968.8
57.5°	236.2	233.2	213.6	213.6	237.7	336.2	1854.8	5420.0	7414.7	7580.3	5845.0
60°	212.1	209.8	197.1	193.3	217.4	354.2	1308.7	5466.6	8204.5	9736.7	7523.1
62.5°	181.2	184.3	177.5	172.2	197.8	367.8	775.5	5091.4	8013.4	10422.6	9532.8
65°	142.9	155.0	153.4	149.6	217.4	309.9	458.1	4370.8	7427.6	9869.0	9122.9
67.5°	121.9	130.1	127.8	127.8	227.9	235.4	288.0	3414.8	6621.2	9212.4	8148.9
70°	103.8	112.0	103.8	103.8	172.2	142.9	199.4	2384.4	5751.0	8485.9	7509.6
72.5°	85.8	94.0	85.0	79.0	137.7	106.8	146.0	1490.0	4925.1	7729.1	7071.8
75°	65.4	75.2	68.5	60.9	91.0	79.7	110.6	865.7	4080.4	6613.0	6448.3
77.5°	41.4	54.1	51.1	42.8	66.9	57.9	79.7	515.3	3148.5	5167.3	5546.4
80°	25.5	27.9	28.6	27.1	38.3	39.2	54.1	293.4	2155.0	3601.3	4333.2
82.5°	16.5	16.5	12.8	14.2	18.8	22.5	30.9	110.6	1266.6	2192.6	3016.2
85°	12.0	10.6	6.8	6.8	9.0	11.3	12.0	33.8	513.7	865.7	1179.4
87.5°	6.0	5.2	2.3	3.0	4.5	3.8	3.0	1.5	129.4	276.8	194.0
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9	1511.9
2.5°	1750.3	1773.6	1775.1	1775.1	1754.8	1754.0	1712.7	1708.2
5°	2060.9	2075.9	2079.7	2072.2	2031.5	2001.5	1921.1	1903.7
7.5°	2345.2	2375.3	2375.3	2357.3	2291.1	2229.4	2112.8	2069.2
10°	2572.3	2607.0	2599.5	2562.6	2479.1	2394.1	2252.7	2195.5
12.5°	2682.9	2718.3	2698.7	2656.6	2575.4	2485.8	2337.0	2272.2
15°	2680.7	2670.9	2650.6	2645.3	2606.3	2538.5	2399.4	2328.7
17.5°	2585.2	2502.4	2486.6	2539.2	2588.9	2572.3	2453.5	2387.3
20°	2434.0	2289.5	2275.3	2376.1	2517.5	2589.7	2504.0	2443.0
22.5°	2274.5	2118.8	2085.8	2197.1	2409.9	2594.9	2567.8	2506.9
25°	2123.3	1966.9	1933.8	2037.6	2290.4	2585.9	2637.0	2585.2
27.5°	1997.0	1845.8	1815.0	1918.8	2175.3	2560.3	2706.3	2669.4
30°	1899.2	1759.3	1736.8	1836.8	2075.9	2528.8	2794.3	2774.0
32.5°	1842.0	1739.7	1748.0	1830.0	2022.5	2494.1	2878.5	2888.2
35°	1898.4	1902.9	1975.2	2009.0	2072.2	2488.9	2992.8	3031.2
37.5°	2179.0	2335.5	2485.1	2457.3	2315.2	2549.8	3163.6	3235.0
40°	2656.6	2977.8	3220.8	3114.7	2756.6	2736.3	3409.6	3516.4
42.5°	3240.3	3784.8	4185.0	3900.6	3326.0	3062.8	3760.8	3896.9
45°	3856.4	4780.0	5410.3	4819.0	3933.0	3520.1	4292.6	4399.4
47.5°	4505.4	5989.4	6804.8	5837.5	4495.6	4040.6	5017.7	5042.5
50°	5215.4	7315.5	8226.3	6855.2	5038.7	4637.0	5903.7	5875.1
52.5°	5891.6	8679.2	9617.8	7877.3	5515.5	5377.2	6931.9	6873.2
55°	6537.0	10042.0	11017.6	8859.7	5965.4	6355.0	8153.4	7798.4
57.5°	7285.4	11267.3	12460.2	9846.5	6594.1	7624.6	9519.3	8335.4
60°	8391.8	12659.6	14091.7	11198.8	7790.1	8958.9	10008.9	8233.1
62.5°	9804.3	13939.7	15277.8	12524.2	8991.3	9210.1	9287.6	7444.9
65°	10078.9	14263.9	15344.8	12878.4	8836.3	7812.7	7582.5	5984.2
67.5°	9350.8	13678.0	14409.0	12218.8	7816.4	6037.6	5690.1	4341.5
70°	8533.9	12561.1	12778.4	11097.4	6874.7	4440.7	3842.7	2786.0
72.5°	7696.8	11071.0	10621.3	9637.4	6042.1	3233.6	2771.7	1980.4
75°	6702.5	9111.6	8366.3	8007.5	5002.6	2537.8	2005.2	1366.6
77.5°	5367.4	6413.6	6214.4	6206.8	3759.3	1854.0	1338.1	856.7
80°	3786.3	4162.4	4060.8	4674.6	2522.0	1344.9	805.5	476.8
82.5°	1833.0	2301.6	2362.5	2783.7	1226.7	791.3	185.8	103.8
85°	717.6	1110.2	936.4	1056.8	344.5	220.4	4.5	0.0
87.5°	80.5	128.6	118.1	93.3	42.1	9.0	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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