

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: P962363

Luminaire Tested: **NAV-SB2C-722-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962363
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-SB2C-722-U-SLR-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 615mA 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: 9678 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

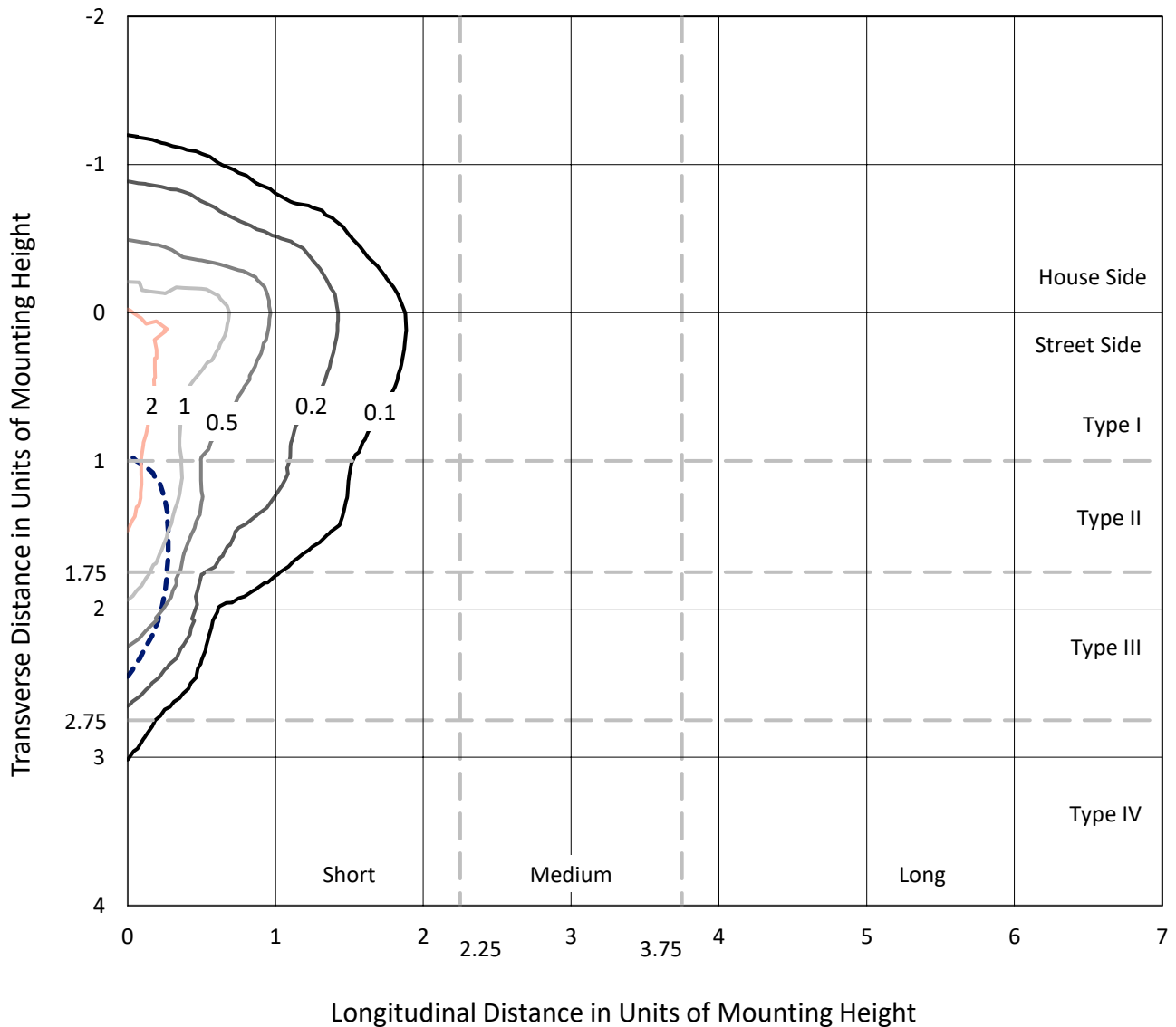
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

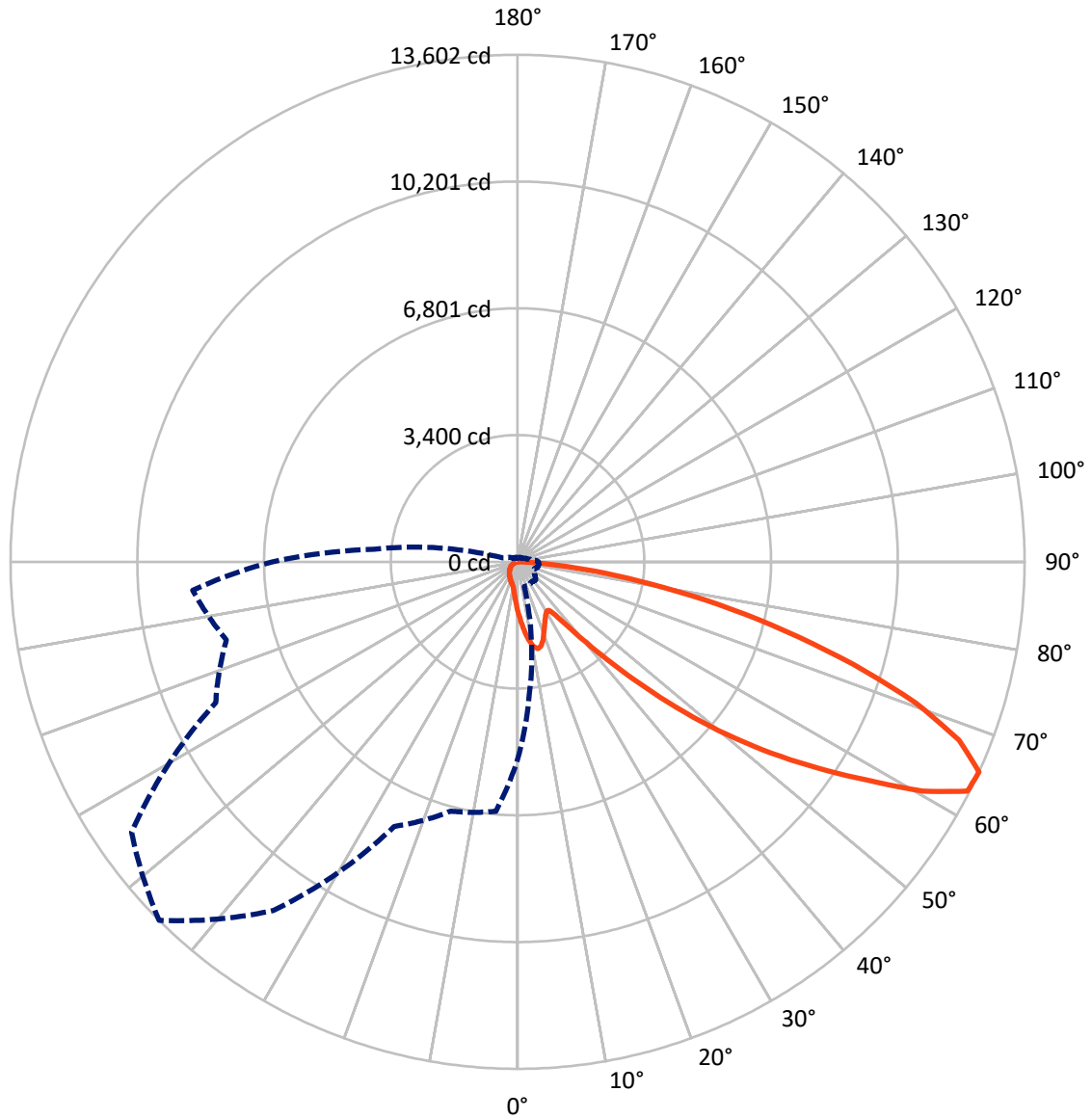
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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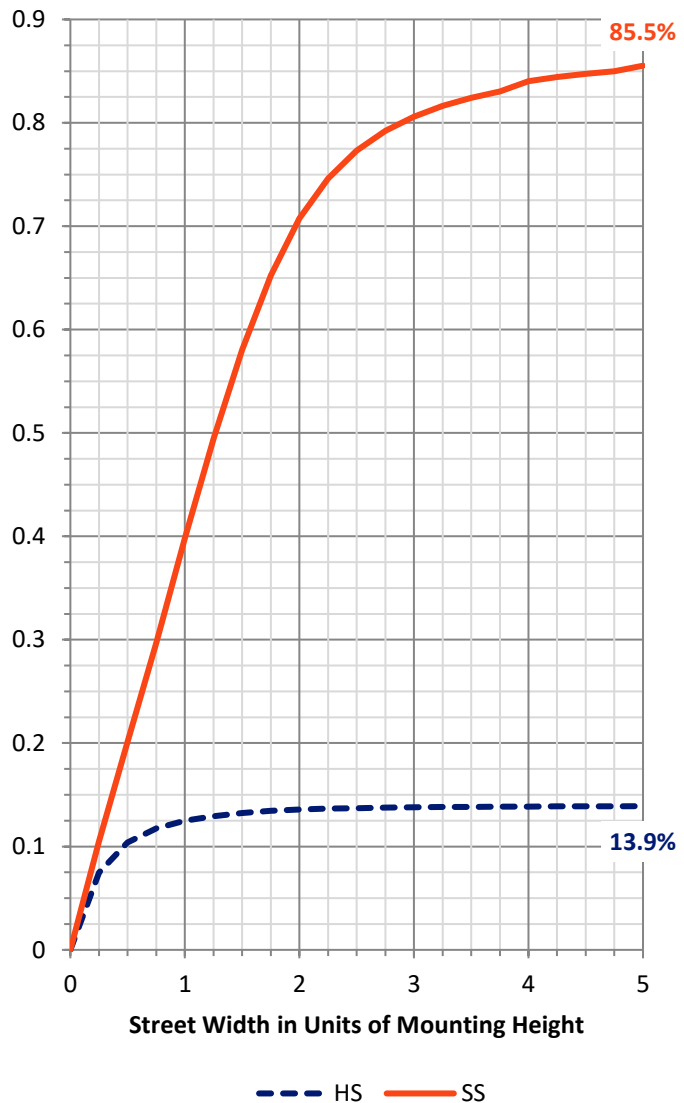
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1355.3	0.0	1355.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	8322.7	0.0	8322.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	9678.0	0.0	9678.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	1.4
10°-20°	395.5	4.1
20°-30°	582.7	6.0
30°-40°	748.6	7.7
40°-50°	1210.7	12.5
50°-60°	2123.0	21.9
60°-70°	2656.5	27.4
70°-80°	1552.3	16.0
80°-90°	277.0	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°	9678.0	100.0
0°-180°	9678.0	100.0

Coefficient of Utilization



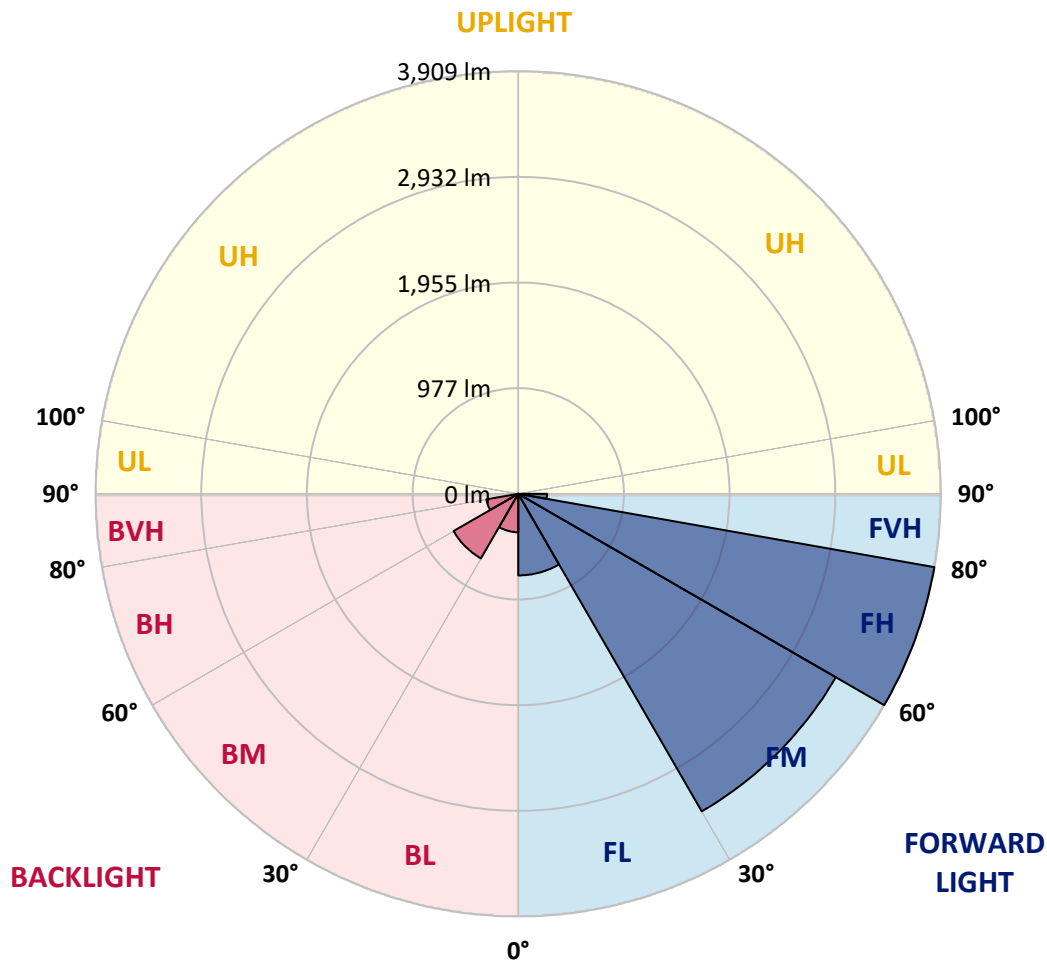
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	754.9	7.8			
FM (30°-60°)	3392.0	35.0			
FH (60°-80°)	3909.5	40.4			G2/5000
FVH (80°-90°)	266.3	2.8			G3/500
BL (0°-30°)	355.3	3.7	B1/500		
BM (30°-60°)	690.2	7.1	B1/1000		
BH (60°-80°)	299.3	3.1	B1/500		G1/500
BVH (80°-90°)	10.6	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°	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1
2.5°	1514.1	1488.1	1472.8	1434.8	1396.8	1366.1	1324.8	1297.4	1264.7	1233.4	1205.4
5°	1687.5	1645.4	1594.8	1525.4	1462.1	1397.5	1334.8	1272.7	1207.4	1147.4	1110.8
7.5°	1834.1	1773.5	1684.1	1592.1	1511.5	1433.5	1360.1	1278.1	1198.7	1104.7	1054.7
10°	1946.2	1868.8	1751.4	1630.8	1538.1	1459.4	1388.1	1318.8	1238.7	1125.4	1062.7
12.5°	2014.1	1931.5	1792.1	1650.8	1544.8	1456.7	1401.5	1370.7	1339.5	1226.7	1153.4
15°	2064.1	1974.8	1820.8	1664.8	1529.4	1421.5	1380.8	1411.4	1447.4	1375.4	1290.8
17.5°	2116.1	2022.1	1858.1	1670.7	1488.1	1352.8	1335.5	1414.8	1498.1	1494.8	1410.8
20°	2165.5	2072.1	1890.8	1666.8	1421.5	1269.5	1284.7	1386.1	1482.8	1523.5	1478.2
22.5°	2222.2	2123.5	1922.2	1651.5	1334.8	1191.5	1239.4	1340.8	1425.5	1473.4	1459.4
25°	2291.5	2188.2	1966.2	1628.8	1241.4	1126.8	1193.4	1288.1	1356.8	1390.1	1389.4
27.5°	2366.2	2265.5	2024.8	1616.8	1166.0	1080.8	1141.4	1225.4	1286.8	1310.1	1310.1
30°	2458.9	2355.6	2094.2	1603.4	1116.7	1054.1	1087.4	1152.7	1212.8	1236.0	1236.0
32.5°	2560.1	2455.5	2160.8	1571.4	1086.7	1034.1	1034.7	1076.0	1130.8	1158.8	1162.8
35°	2686.8	2575.5	2232.1	1501.4	1062.7	1010.8	983.4	1003.4	1048.8	1082.1	1090.7
37.5°	2867.5	2732.9	2319.5	1401.5	1027.5	974.8	929.4	934.1	968.7	1005.4	1018.7
40°	3116.9	2944.2	2422.2	1297.4	976.7	924.0	870.0	868.1	893.4	929.4	944.0
42.5°	3454.2	3223.6	2545.5	1198.1	928.0	862.7	807.4	804.0	824.1	855.4	870.7
45°	3899.6	3580.9	2696.9	1112.7	890.1	802.7	748.0	746.7	763.4	790.7	806.8
47.5°	4469.7	4077.7	2848.2	1054.7	870.0	755.4	699.4	702.0	716.7	741.4	752.8
50°	5207.7	4725.0	2894.2	1025.4	870.0	730.0	656.0	669.4	681.4	700.1	706.7
52.5°	6092.5	5346.4	2742.2	998.8	875.4	733.4	619.4	648.0	656.7	672.7	675.4
55°	6912.5	5651.1	2357.5	962.1	876.7	754.1	588.0	630.7	646.7	652.7	652.0
57.5°	7388.5	5546.4	1906.2	900.1	871.4	768.0	568.1	609.4	640.0	644.0	638.1
60°	7297.9	5179.0	1403.4	852.7	832.1	762.7	562.0	576.7	625.4	631.4	623.4
62.5°	6599.2	4563.0	974.1	816.1	745.4	739.4	560.1	525.4	593.4	608.0	596.8
65°	5304.4	3592.3	688.1	702.7	653.3	688.7	549.4	472.0	554.7	574.7	557.4
67.5°	3848.3	2430.9	496.7	569.4	592.0	606.7	525.4	433.4	510.7	537.4	514.8
70°	2469.5	1312.7	348.7	376.1	498.7	515.4	484.0	398.7	466.1	496.7	472.0
72.5°	1755.4	775.4	250.7	263.3	400.7	429.4	426.0	360.0	414.0	451.4	422.0
75°	1211.4	427.3	169.3	188.0	290.7	348.7	328.7	309.3	350.7	388.7	360.0
77.5°	759.4	191.4	101.4	130.7	190.6	274.0	225.4	239.3	273.4	308.7	278.7
80°	422.7	74.0	56.7	86.7	104.0	199.4	124.6	154.1	201.3	226.7	202.6
82.5°	92.0	9.3	25.3	37.3	40.7	116.0	66.0	89.4	126.7	124.6	108.0
85°	0.0	0.0	4.7	5.3	2.7	50.0	24.0	29.3	41.3	38.6	29.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	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°	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1
2.5°	1200.1	1167.4	1143.4	1131.4	1121.5	1130.8	1136.1	1136.1	1158.8	1172.1	1177.4
5°	1087.4	1028.8	984.1	954.1	936.0	942.1	948.7	956.1	984.7	1004.1	1016.7
7.5°	1009.4	919.4	851.4	809.4	787.4	790.7	795.4	801.3	829.4	848.7	865.4
10°	994.8	865.4	769.4	714.0	687.4	682.8	680.1	678.0	694.7	709.4	722.7
12.5°	1054.7	868.1	734.1	666.8	634.1	620.0	604.0	591.4	594.1	603.4	620.0
15°	1162.0	902.1	722.7	642.1	601.4	578.0	559.3	544.1	540.7	544.1	546.7
17.5°	1284.7	948.0	721.4	620.7	570.0	546.0	530.7	516.7	512.0	512.7	516.1
20°	1366.1	984.7	717.4	596.8	540.1	518.8	505.3	491.4	486.7	488.0	488.7
22.5°	1374.1	1004.1	711.3	570.0	510.0	492.0	478.7	466.1	465.4	465.4	469.3
25°	1330.8	1004.1	698.7	546.0	481.3	465.4	453.4	438.0	440.7	442.1	447.4
27.5°	1263.4	980.1	674.8	526.7	456.7	440.0	428.0	414.0	417.4	419.3	425.4
30°	1196.8	949.4	646.1	504.7	433.4	414.0	405.4	393.4	394.7	397.4	404.1
32.5°	1134.8	916.8	612.0	486.7	410.0	390.7	384.1	370.7	372.7	375.4	382.7
35°	1073.4	880.8	572.1	465.4	388.7	369.4	364.0	348.7	350.0	354.0	362.0
37.5°	1007.4	842.8	539.4	444.0	368.1	348.0	342.7	326.7	328.0	332.7	342.0
40°	938.1	805.3	507.4	421.4	346.0	326.1	321.3	304.0	305.3	310.7	320.7
42.5°	868.1	764.8	482.7	392.1	323.4	302.1	297.4	281.4	283.3	289.4	299.4
45°	803.4	716.1	466.7	359.4	302.1	278.0	273.4	258.7	262.7	269.4	279.3
47.5°	748.0	666.0	460.0	332.0	279.3	253.4	249.4	237.4	244.1	251.3	259.3
50°	700.7	618.1	451.4	304.0	258.0	232.1	228.1	220.1	228.7	236.1	243.3
52.5°	666.8	563.3	432.7	278.7	239.3	214.0	212.7	208.7	216.7	223.3	230.0
55°	637.3	506.7	402.7	256.7	222.7	198.6	200.0	198.0	204.7	210.0	216.0
57.5°	610.7	457.4	364.7	239.3	204.7	185.3	189.3	186.7	190.0	193.3	200.7
60°	578.7	407.3	319.4	220.1	183.4	172.0	176.7	169.3	168.7	170.0	172.0
62.5°	531.4	340.0	272.0	196.0	164.7	157.3	159.4	145.3	134.7	134.7	136.6
65°	465.4	273.4	228.1	169.3	143.3	137.4	136.0	116.0	101.4	100.0	106.0
67.5°	388.7	224.7	189.3	142.7	119.3	115.3	116.6	102.0	87.3	86.0	92.7
70°	316.7	186.0	152.7	114.0	92.0	96.0	102.0	87.3	73.4	71.3	77.4
72.5°	257.4	148.0	119.3	87.3	68.0	79.3	86.7	71.3	58.0	56.7	62.0
75°	198.6	108.6	85.4	59.3	49.3	61.3	68.0	52.0	41.3	39.4	44.0
77.5°	132.6	67.3	48.0	37.3	29.3	42.0	45.3	27.4	24.0	23.4	26.6
80°	80.7	31.4	20.7	18.0	10.0	15.4	18.0	11.4	12.7	13.3	16.0
82.5°	40.7	8.7	3.4	0.7	0.0	0.0	5.3	2.7	5.3	6.7	10.0
85°	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.4	6.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
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°	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1
2.5°	1214.7	1242.7	1269.5	1312.1	1356.1	1399.4	1443.4	1486.1	1501.4	1512.8	1538.1
5°	1074.7	1127.4	1188.8	1273.5	1364.1	1457.4	1552.2	1638.8	1678.1	1704.8	1764.8
7.5°	930.1	998.8	1086.7	1214.1	1356.1	1504.8	1653.4	1790.2	1853.5	1904.9	1996.2
10°	786.7	861.4	972.7	1118.1	1310.1	1523.5	1728.8	1916.9	1998.9	2063.5	2187.5
12.5°	660.7	730.7	847.4	1008.1	1238.1	1508.8	1772.1	1998.1	2094.8	2167.5	2303.5
15°	572.1	621.4	724.7	898.1	1152.7	1461.4	1774.8	2036.8	2142.9	2218.8	2336.8
17.5°	522.8	539.4	606.7	786.1	1058.1	1399.4	1750.1	2050.1	2163.5	2234.2	2316.2
20°	496.0	498.7	517.4	640.7	936.7	1341.4	1726.8	2063.5	2182.8	2242.2	2266.8
22.5°	474.7	474.7	479.4	524.1	780.0	1272.1	1719.4	2086.8	2209.5	2246.2	2195.4
25°	455.4	455.4	456.7	468.7	618.1	1166.0	1714.8	2122.8	2246.2	2256.1	2116.8
27.5°	435.3	436.0	436.0	442.7	498.0	1022.0	1694.8	2169.5	2290.2	2269.5	2041.5
30°	415.3	416.7	416.7	421.4	440.7	853.4	1655.5	2225.5	2347.6	2286.9	1966.8
32.5°	395.3	396.7	396.7	400.7	414.7	681.4	1606.1	2276.8	2405.5	2294.2	1897.5
35°	374.7	376.7	375.4	380.7	395.3	542.0	1543.4	2328.2	2468.2	2317.5	1863.4
37.5°	354.0	355.4	354.6	360.0	376.7	468.0	1470.8	2366.8	2553.5	2369.5	1904.1
40°	333.3	332.7	332.7	338.7	356.7	446.7	1379.4	2428.2	2676.2	2460.8	2081.5
42.5°	312.0	312.0	310.7	317.3	339.4	430.7	1292.1	2538.2	2854.8	2606.2	2396.1
45°	292.6	292.0	289.4	295.4	322.7	402.7	1261.5	2743.5	3118.9	2841.5	2776.8
47.5°	274.0	273.4	266.7	272.0	302.7	377.4	1376.1	3079.6	3484.9	3187.5	3133.5
50°	257.4	258.0	245.4	250.0	282.7	358.0	1624.8	3515.6	3971.0	3653.6	3471.6
52.5°	242.0	242.0	225.4	228.1	258.0	340.7	1861.5	3988.3	4612.3	4303.7	3865.6
55°	226.7	225.4	206.6	208.0	233.4	316.0	1896.8	4449.6	5487.0	5281.7	4404.3
57.5°	209.3	206.6	189.3	189.3	210.6	298.1	1644.1	4804.4	6572.5	6719.2	5181.1
60°	188.0	186.0	174.7	171.4	192.7	314.1	1160.1	4845.7	7272.6	8630.6	6668.5
62.5°	160.7	163.4	157.3	152.7	175.4	326.1	687.4	4513.0	7103.1	9238.7	8450.0
65°	126.7	137.4	136.0	132.6	192.7	274.7	406.0	3874.3	6583.8	8748.0	8086.6
67.5°	108.0	115.3	113.4	113.4	202.0	208.7	255.3	3026.9	5869.2	8166.0	7223.2
70°	92.0	99.3	92.0	92.0	152.7	126.7	176.7	2113.4	5097.7	7521.9	6656.5
72.5°	76.1	83.3	75.3	70.0	122.0	94.7	129.4	1320.8	4365.7	6851.2	6268.5
75°	58.0	66.6	60.7	54.0	80.7	70.6	98.0	767.4	3616.9	5861.8	5715.8
77.5°	36.7	48.0	45.3	38.0	59.3	51.4	70.6	456.7	2790.9	4580.3	4916.4
80°	22.7	24.7	25.3	24.0	34.0	34.6	48.0	260.0	1910.2	3192.3	3841.0
82.5°	14.7	14.7	11.4	12.7	16.7	20.0	27.4	98.0	1122.8	1943.5	2673.5
85°	10.7	9.3	6.0	6.0	8.0	10.0	10.7	30.0	455.4	767.4	1045.4
87.5°	5.3	4.7	2.0	2.7	4.0	3.4	2.7	1.3	114.7	245.4	172.0
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°	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1
2.5°	1551.4	1572.1	1573.5	1573.5	1555.4	1554.8	1518.1	1514.1
5°	1826.8	1840.2	1843.5	1836.8	1800.8	1774.2	1702.8	1687.5
7.5°	2078.8	2105.5	2105.5	2089.5	2030.8	1976.1	1872.8	1834.1
10°	2280.2	2310.9	2304.2	2271.5	2197.5	2122.2	1996.8	1946.2
12.5°	2378.2	2409.5	2392.1	2354.8	2282.9	2203.5	2071.5	2014.1
15°	2376.2	2367.5	2349.5	2344.9	2310.1	2250.2	2126.9	2064.1
17.5°	2291.5	2218.2	2204.2	2250.8	2294.9	2280.2	2174.8	2116.1
20°	2157.5	2029.5	2016.8	2106.2	2231.5	2295.5	2219.5	2165.5
22.5°	2016.2	1878.1	1848.8	1947.5	2136.2	2300.2	2276.2	2222.2
25°	1882.1	1743.4	1714.1	1806.2	2030.1	2292.2	2337.5	2291.5
27.5°	1770.2	1636.1	1608.7	1700.8	1928.1	2269.5	2398.8	2366.2
30°	1683.5	1559.4	1539.4	1628.1	1840.2	2241.5	2476.8	2458.9
32.5°	1632.8	1542.1	1549.5	1622.2	1792.8	2210.8	2551.5	2560.1
35°	1682.7	1686.8	1750.8	1780.8	1836.8	2206.2	2652.9	2686.8
37.5°	1931.5	2070.2	2202.8	2178.1	2052.2	2260.1	2804.2	2867.5
40°	2354.8	2639.6	2854.8	2760.8	2443.5	2425.6	3022.2	3116.9
42.5°	2872.3	3354.9	3709.6	3457.6	2948.2	2714.9	3333.6	3454.2
45°	3418.3	4236.9	4795.7	4271.7	3486.2	3120.2	3804.9	3899.6
47.5°	3993.6	5309.1	6031.8	5174.4	3985.0	3581.6	4447.7	4469.7
50°	4623.1	6484.5	7291.8	6076.4	4466.3	4110.4	5233.0	5207.7
52.5°	5222.4	7693.2	8525.3	6982.5	4889.0	4766.4	6144.5	6092.5
55°	5794.4	8901.3	9766.1	7853.2	5287.8	5633.1	7227.2	6912.5
57.5°	6457.8	9987.4	11044.8	8728.0	5845.1	6758.5	8438.0	7388.5
60°	7438.5	11221.5	12491.0	9926.7	6905.2	7941.3	8872.0	7297.9
62.5°	8690.7	12356.3	13542.3	11101.5	7969.9	8163.9	8232.6	6599.2
65°	8934.0	12643.6	13601.6	11415.5	7832.5	6925.2	6721.1	5304.4
67.5°	8288.7	12124.2	12772.3	10830.8	6928.5	5351.7	5043.7	3848.3
70°	7564.6	11134.2	11326.9	9836.7	6093.8	3936.3	3406.3	2469.5
72.5°	6822.5	9813.3	9414.7	8542.7	5355.7	2866.2	2456.8	1755.4
75°	5941.1	8076.6	7415.9	7097.8	4434.4	2249.5	1777.5	1211.4
77.5°	4757.6	5685.1	5508.5	5501.8	3332.3	1643.5	1186.1	759.4
80°	3356.3	3689.6	3599.6	4143.7	2235.5	1192.1	714.0	422.7
82.5°	1624.8	2040.2	2094.2	2467.5	1087.4	701.4	164.7	92.0
85°	636.0	984.1	830.0	936.7	305.3	195.4	4.0	0.0
87.5°	71.3	114.0	104.7	82.7	37.3	8.0	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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