

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: P961927

Luminaire Tested: **NAV-SB2B-735-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961927
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-SB2B-735-U-SLL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 450mA 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: 8808.8 lumens
Efficiency: N/A
Efficacy: 119.2 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): 73.9
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



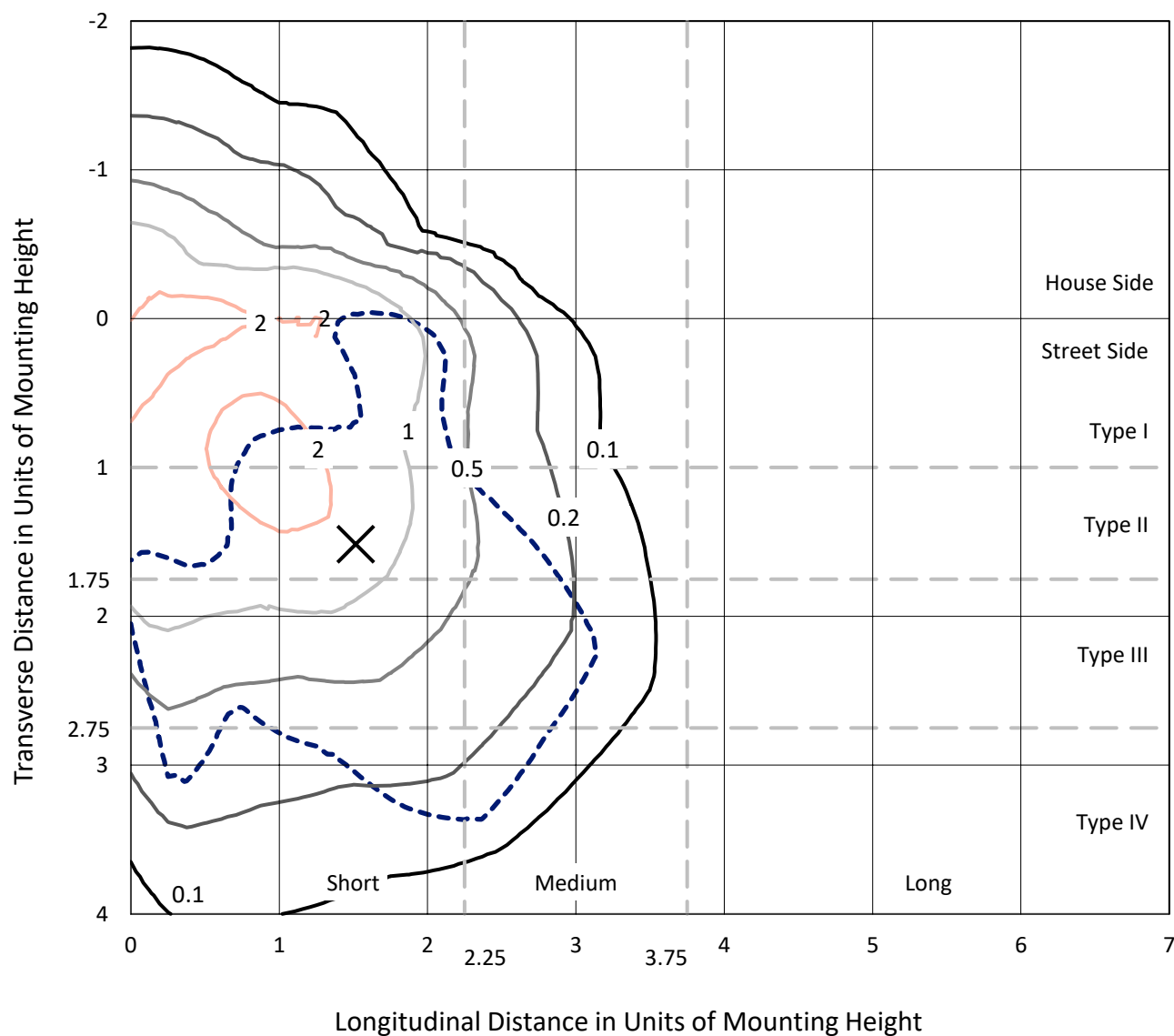
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

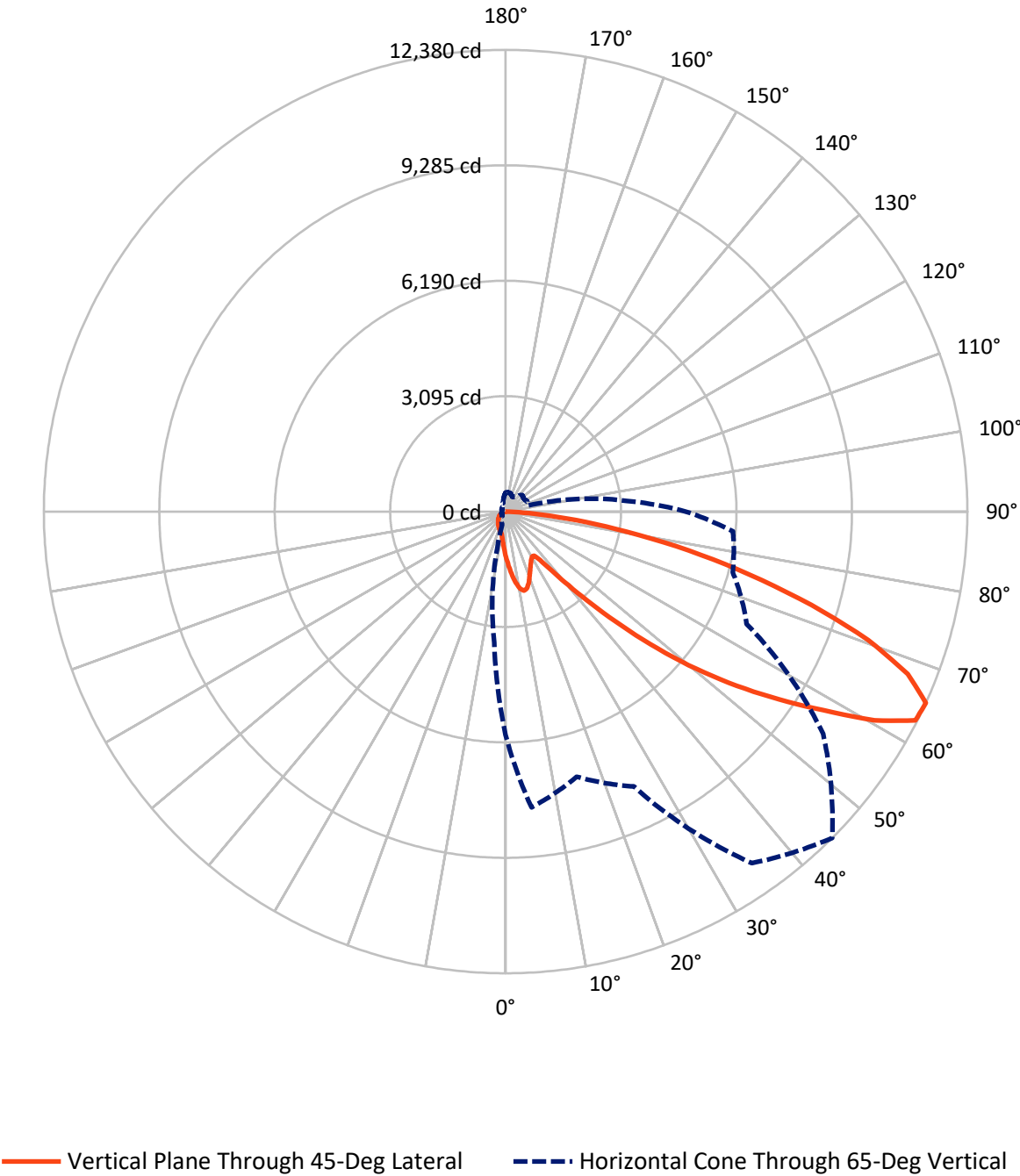


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1750.9	0.0	1750.9
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	7057.9	0.0	7057.9
	% Fixture	80.1	0.0	80.1
Total	Lumens	8808.8	0.0	8808.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.1	1.4
10°-20°	360.0	4.1
20°-30°	530.3	6.0
30°-40°	681.3	7.7
40°-50°	1101.9	12.5
50°-60°	1932.3	21.9
60°-70°	2417.9	27.4
70°-80°	1412.9	16.0
80°-90°	252.1	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°	8808.8	100.0
0°-180°	8808.8	100.0

Coefficient of Utilization



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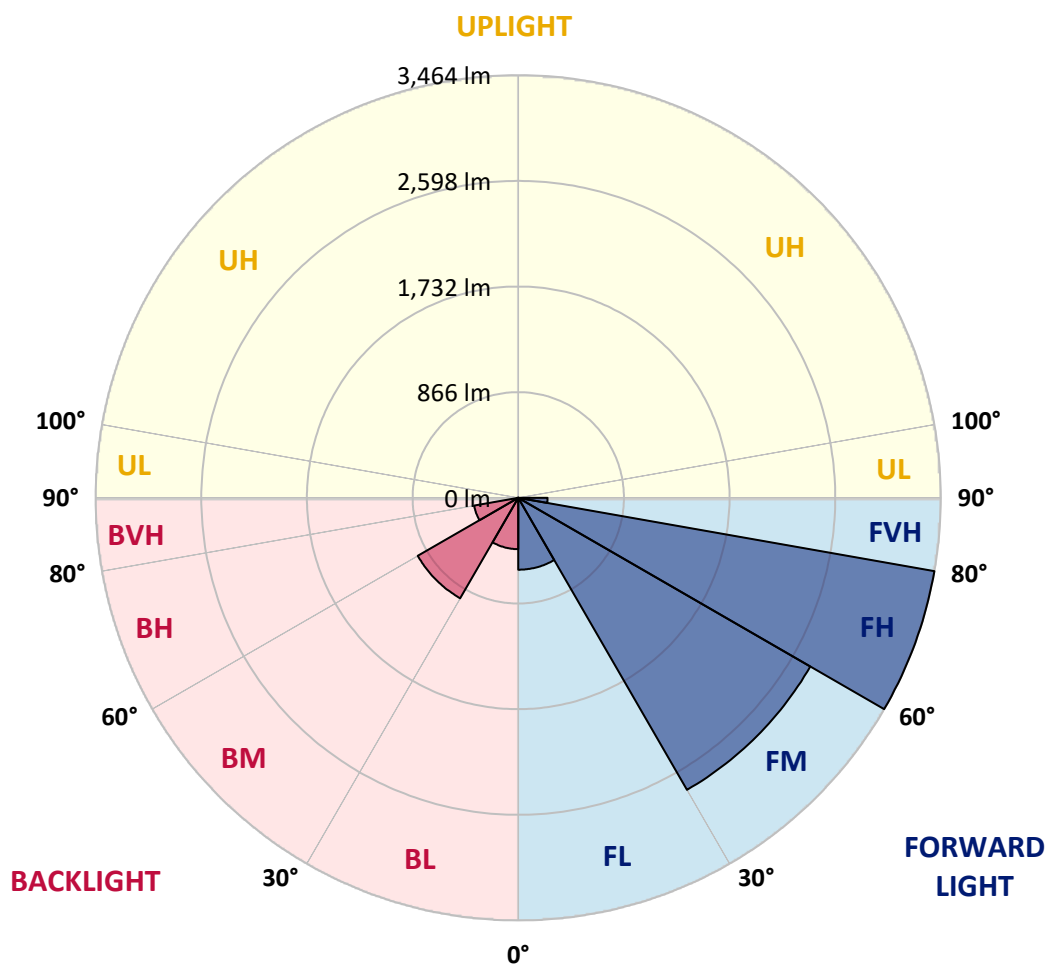
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	589.4	6.7			
FM	(30°-60°)	2764.3	31.4			
FH	(60°-80°)	3463.9	39.3			G2/5000
FVH	(80°-90°)	240.3	2.7			G3/500
BL	(0°-30°)	421.0	4.8	B1/500		
BM	(30°-60°)	951.3	10.8	B1/1000		
BH	(60°-80°)	366.8	4.2	B1/500		G1/500
BVH	(80°-90°)	11.8	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°	1219.8	1219.8	1219.8	1219.8	1219.8	1219.8	1219.8	1219.8	1219.8	1219.8	1219.8
2.5°	1366.6	1376.9	1399.9	1412.1	1430.9	1432.1	1432.1	1415.7	1415.1	1381.8	1378.1
5°	1527.5	1551.6	1606.3	1662.8	1674.8	1677.9	1671.9	1639.1	1614.8	1549.9	1535.9
7.5°	1687.0	1733.7	1816.9	1892.2	1916.4	1916.4	1901.8	1848.4	1798.7	1704.6	1669.4
10°	1819.3	1878.2	1991.1	2075.4	2103.3	2097.3	2067.5	2000.2	1931.6	1817.5	1771.4
12.5°	1906.7	1972.8	2096.6	2164.6	2193.1	2177.3	2143.4	2077.8	2005.6	1885.5	1833.2
15°	1950.4	2019.6	2127.0	2162.8	2154.9	2138.5	2134.3	2102.7	2048.1	1935.8	1878.7
17.5°	1969.2	2033.5	2108.1	2085.7	2018.9	2006.2	2048.7	2088.7	2075.4	1979.5	1926.1
20°	1986.8	2040.8	2063.2	1963.7	1847.3	1835.7	1917.0	2031.0	2089.4	2020.2	1971.0
22.5°	2011.0	2044.5	1998.3	1835.1	1709.5	1682.7	1772.5	1944.3	2093.6	2071.7	2022.6
25°	2044.5	2053.6	1926.7	1713.1	1586.9	1560.2	1643.9	1847.9	2086.3	2127.6	2085.7
27.5°	2084.4	2065.7	1858.1	1611.2	1489.2	1464.3	1548.1	1755.0	2065.7	2183.4	2153.6
30°	2136.7	2081.5	1790.2	1532.3	1419.4	1401.2	1481.9	1674.8	2040.2	2254.4	2238.0
32.5°	2189.5	2088.1	1727.0	1486.1	1403.6	1410.3	1476.4	1631.8	2012.3	2322.3	2330.2
35°	2246.5	2109.3	1696.1	1531.7	1535.3	1593.6	1620.8	1671.9	2008.0	2414.6	2445.5
37.5°	2324.2	2156.7	1733.2	1758.0	1884.3	2005.0	1982.6	1867.9	2057.2	2552.4	2610.1
40°	2435.8	2239.8	1894.5	2143.4	2402.5	2598.5	2512.9	2224.0	2207.6	2750.8	2837.0
42.5°	2598.5	2372.2	2181.0	2614.3	3053.6	3376.5	3147.1	2683.4	2471.1	3034.2	3144.0
45°	2838.7	2586.4	2527.4	3111.3	3856.5	4365.0	3888.0	3173.2	2840.0	3463.3	3549.4
47.5°	3172.0	2901.3	2852.2	3635.0	4832.3	5490.1	4709.7	3627.1	3259.9	4048.2	4068.2
50°	3614.4	3325.5	3159.8	4207.8	5902.2	6637.0	5530.7	4065.3	3741.1	4763.1	4740.0
52.5°	4198.1	3917.1	3518.4	4753.3	7002.3	7759.7	6355.4	4449.9	4338.3	5592.6	5545.2
55°	4994.3	4807.4	4008.8	5274.0	8101.9	8889.0	7147.9	4812.8	5127.2	6578.1	6291.7
57.5°	5982.2	6115.7	4715.7	5877.9	9090.4	10052.9	7944.2	5320.2	6151.5	7680.1	6725.0
60°	6619.3	7855.5	6069.6	6770.5	10213.7	11369.1	9035.2	6285.0	7228.1	8075.2	6642.4
62.5°	6465.3	8409.0	7691.1	7910.1	11246.5	12326.1	10104.4	7254.1	7430.7	7493.3	6006.5
65°	5992.6	7962.3	7360.3	8131.6	11508.1	12380.1	10390.3	7129.1	6303.2	6117.5	4828.0
67.5°	5342.0	7432.6	6574.5	7544.2	11035.4	11625.1	9858.0	6306.2	4871.1	4590.8	3502.6
70°	4639.9	6846.4	6058.7	6885.1	10134.2	10309.6	8953.3	5546.5	3582.8	3100.3	2247.7
72.5°	3973.6	6235.9	5705.5	6209.8	8932.1	8569.2	7775.4	4874.7	2608.8	2236.2	1597.8
75°	3292.1	5335.3	5202.4	5407.5	7351.2	6749.8	6460.4	4036.0	2047.4	1617.9	1102.6
77.5°	2540.3	4169.0	4474.8	4330.4	5174.5	5013.7	5007.6	3033.0	1495.9	1079.5	691.2
80°	1738.6	2905.6	3496.0	3054.8	3358.2	3276.3	3771.5	2034.7	1085.1	650.0	384.8
82.5°	1021.9	1768.9	2433.5	1478.9	1856.9	1906.1	2245.9	989.7	638.4	149.9	83.7
85°	414.5	698.4	951.5	578.9	895.6	755.5	852.6	278.0	177.8	3.7	0.0
87.5°	104.3	223.3	156.5	64.9	103.7	95.2	75.2	34.0	7.3	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1219.8	1219.8	1219.8	1219.8	1219.8	1219.8	1219.8	1219.8	1219.8	1219.8	1219.8
2.5°	1354.4	1340.5	1306.0	1271.3	1243.4	1205.8	1180.9	1151.2	1122.7	1097.2	1092.3
5°	1497.6	1451.6	1388.5	1330.8	1271.9	1214.9	1158.5	1099.0	1044.4	1011.0	989.7
7.5°	1614.2	1532.9	1449.1	1375.7	1304.7	1238.0	1163.3	1091.1	1005.5	960.0	918.7
10°	1701.0	1594.2	1484.3	1399.9	1328.4	1263.4	1200.3	1127.5	1024.4	967.3	905.4
12.5°	1758.0	1631.2	1502.5	1406.0	1325.9	1275.6	1247.6	1219.1	1116.5	1049.8	960.0
15°	1797.4	1657.3	1515.3	1392.1	1293.8	1256.8	1284.6	1317.4	1251.9	1174.9	1057.7
17.5°	1840.5	1691.2	1520.7	1354.4	1231.2	1215.4	1287.7	1363.6	1360.5	1284.0	1169.4
20°	1886.1	1721.0	1517.1	1293.8	1155.4	1169.4	1261.6	1349.6	1386.6	1345.3	1243.4
22.5°	1932.7	1749.5	1503.2	1214.9	1084.4	1128.1	1220.4	1297.4	1341.1	1328.4	1250.7
25°	1991.7	1789.5	1482.5	1130.0	1025.5	1086.2	1172.4	1234.9	1265.3	1264.6	1211.2
27.5°	2062.0	1843.0	1471.6	1061.4	983.7	1038.9	1115.4	1171.2	1192.5	1192.5	1149.9
30°	2144.0	1906.1	1459.4	1016.5	959.4	989.7	1049.2	1103.8	1125.0	1125.0	1089.3
32.5°	2235.0	1966.8	1430.3	989.1	941.2	941.8	979.4	1029.2	1054.7	1058.3	1032.8
35°	2344.2	2031.7	1366.6	967.3	919.9	895.1	913.3	954.6	984.9	992.8	977.0
37.5°	2487.5	2111.2	1275.6	935.1	887.2	845.9	850.1	881.7	915.1	927.2	917.0
40°	2679.8	2204.7	1180.9	889.0	841.1	791.9	790.1	813.1	845.9	859.3	853.8
42.5°	2934.1	2316.9	1090.5	844.7	785.3	734.9	731.8	750.1	778.6	792.5	790.1
45°	3259.3	2454.7	1012.8	810.2	730.6	680.9	679.7	694.8	719.8	734.3	731.2
47.5°	3711.4	2592.4	960.0	791.9	687.6	636.5	639.0	652.3	674.8	685.1	680.9
50°	4300.7	2634.2	933.4	791.9	664.5	597.2	609.3	620.2	637.1	643.3	637.8
52.5°	4866.2	2495.9	909.1	796.7	667.5	563.8	589.9	597.8	612.3	614.7	606.8
55°	5143.6	2145.7	875.7	798.0	686.3	535.3	574.1	588.7	594.1	593.5	580.2
57.5°	5048.3	1734.9	819.2	793.1	699.0	517.0	554.6	582.6	586.2	580.8	555.9
60°	4713.9	1277.4	776.1	757.4	694.2	511.6	524.9	569.2	574.7	567.4	526.7
62.5°	4153.2	886.6	742.8	678.4	673.0	509.7	478.2	540.1	553.4	543.1	483.7
65°	3269.6	626.3	639.6	594.7	626.9	500.0	429.7	504.9	523.1	507.3	423.5
67.5°	2212.6	452.1	518.2	538.8	552.3	478.2	394.4	464.8	489.1	468.5	353.8
70°	1194.8	317.3	342.2	453.9	469.0	440.5	362.8	424.1	452.1	429.7	288.2
72.5°	705.7	228.2	239.7	364.7	390.8	387.8	327.7	376.9	410.8	384.2	234.2
75°	389.0	154.2	171.2	264.6	317.3	299.2	281.6	319.2	353.8	327.7	180.8
77.5°	174.1	92.2	118.9	173.5	249.4	205.1	217.8	248.8	281.0	253.7	120.7
80°	67.3	51.6	78.9	94.7	181.4	113.5	140.2	183.3	206.3	184.5	73.4
82.5°	8.5	23.1	34.0	37.0	105.6	60.1	81.3	115.3	113.5	98.3	37.0
85°	0.0	4.2	4.8	2.5	45.5	21.8	26.6	37.6	35.2	26.6	3.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1219.8	1219.8	1219.8	1219.8	1219.8	1219.8	1219.8	1219.8	1219.8	1219.8	1219.8
2.5°	1062.6	1040.7	1029.8	1020.7	1029.2	1034.0	1034.0	1054.7	1066.8	1071.6	1105.7
5°	936.3	895.6	868.4	852.0	857.4	863.6	870.2	896.3	913.9	925.5	978.3
7.5°	836.8	774.9	736.7	716.7	719.8	724.0	729.4	754.9	772.5	787.7	846.5
10°	787.7	700.3	650.0	625.7	621.4	619.0	617.2	632.3	645.6	657.8	716.1
12.5°	790.1	668.1	606.8	577.1	564.4	549.8	538.2	540.7	549.2	564.4	601.4
15°	821.0	657.8	584.4	547.3	526.1	509.1	495.2	492.1	495.2	497.6	520.7
17.5°	862.9	656.6	565.0	518.9	497.0	483.1	470.3	466.1	466.7	469.7	475.8
20°	896.3	652.9	543.1	491.5	472.1	460.0	447.2	443.0	444.2	444.8	451.5
22.5°	913.9	647.5	518.9	464.2	447.8	435.7	424.1	423.5	423.5	427.2	432.0
25°	913.9	636.0	497.0	438.2	423.5	412.7	398.7	401.1	402.3	407.2	414.5
27.5°	892.1	614.1	479.4	415.6	400.5	389.6	376.9	379.9	381.7	387.1	396.3
30°	864.2	588.0	459.4	394.4	376.9	369.0	358.0	359.3	361.7	367.8	378.0
32.5°	834.5	557.1	443.0	373.2	355.6	349.5	337.4	339.2	341.6	348.3	359.9
35°	801.7	520.7	423.5	353.8	336.2	331.4	317.3	318.6	322.3	329.5	341.0
37.5°	767.0	491.0	404.2	335.0	316.7	311.9	297.4	298.6	302.8	311.3	322.3
40°	733.1	461.8	383.6	315.0	296.7	292.5	276.8	278.0	282.8	291.9	303.4
42.5°	696.1	439.3	356.8	294.3	274.9	270.6	256.0	257.9	263.3	272.4	284.0
45°	651.7	424.8	327.1	274.9	253.1	248.8	235.4	239.1	245.2	254.3	266.4
47.5°	606.2	418.7	302.2	254.3	230.6	226.9	216.1	222.1	228.8	236.1	249.4
50°	562.5	410.8	276.8	234.8	211.2	207.6	200.3	208.2	214.8	221.5	234.2
52.5°	512.8	393.8	253.7	217.8	194.7	193.6	189.9	197.2	203.3	209.4	220.3
55°	461.1	366.5	233.6	202.6	180.8	182.0	180.2	186.3	191.2	196.6	206.3
57.5°	416.3	331.9	217.8	186.3	168.7	172.3	169.9	172.9	176.0	182.7	190.5
60°	370.7	290.7	200.3	166.9	156.5	160.8	154.2	153.5	154.8	156.5	171.2
62.5°	309.4	247.6	178.5	149.9	143.2	145.0	132.3	122.6	122.6	124.4	146.3
65°	248.8	207.6	154.2	130.5	125.0	123.8	105.6	92.2	91.0	96.5	115.3
67.5°	204.5	172.3	129.9	108.6	105.0	106.2	92.9	79.5	78.3	84.4	98.3
70°	169.3	139.0	103.7	83.7	87.4	92.9	79.5	66.7	64.9	70.4	83.7
72.5°	134.7	108.6	79.5	61.9	72.3	78.9	64.9	52.8	51.6	56.5	69.2
75°	98.9	77.7	54.0	44.9	55.9	61.9	47.4	37.6	35.8	40.1	52.8
77.5°	61.3	43.7	34.0	26.6	38.2	41.3	24.9	21.8	21.2	24.3	33.4
80°	28.5	18.9	16.4	9.1	13.9	16.4	10.4	11.5	12.1	14.6	20.6
82.5°	7.9	3.1	0.6	0.0	0.0	4.8	2.5	4.8	6.0	9.1	13.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.1	5.4	9.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	4.8
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°	1219.8	1219.8	1219.8	1219.8	1219.8	1219.8	1219.8	1219.8
2.5°	1131.2	1155.4	1194.2	1234.3	1273.8	1313.8	1352.7	1366.6
5°	1026.1	1082.0	1159.1	1241.6	1326.6	1412.8	1491.6	1527.5
7.5°	909.1	989.1	1105.1	1234.3	1369.6	1505.0	1629.3	1687.0
10°	784.0	885.4	1017.6	1192.5	1386.6	1573.6	1744.7	1819.3
12.5°	665.1	771.3	917.6	1126.9	1373.3	1612.9	1818.7	1906.7
15°	565.6	659.6	817.4	1049.2	1330.1	1615.4	1853.9	1950.4
17.5°	491.0	552.3	715.4	963.1	1273.8	1593.0	1866.0	1969.2
20°	453.9	470.9	583.1	852.6	1221.0	1571.7	1878.2	1986.8
22.5°	432.0	436.3	476.9	710.0	1157.8	1565.1	1899.4	2011.0
25°	414.5	415.6	426.6	562.5	1061.4	1560.8	1932.1	2044.5
27.5°	396.9	396.9	402.9	453.4	930.3	1542.6	1974.7	2084.4
30°	379.2	379.2	383.6	401.1	776.7	1506.7	2025.6	2136.7
32.5°	361.1	361.1	364.7	377.4	620.2	1461.9	2072.3	2189.5
35°	342.9	341.6	346.6	359.9	493.3	1404.9	2119.1	2246.5
37.5°	323.5	322.9	327.7	342.9	426.0	1338.6	2154.2	2324.2
40°	302.8	302.8	308.3	324.6	406.6	1255.5	2210.1	2435.8
42.5°	284.0	282.8	288.8	308.8	392.1	1176.1	2310.2	2598.5
45°	265.8	263.3	268.9	293.7	366.5	1148.1	2497.1	2838.7
47.5°	248.8	242.7	247.6	275.5	343.5	1252.6	2803.0	3172.0
50°	234.8	223.3	227.6	257.3	325.8	1478.9	3199.8	3614.4
52.5°	220.3	205.1	207.6	234.8	310.1	1694.3	3630.1	4198.1
55°	205.1	188.1	189.3	212.4	287.6	1726.4	4050.1	4994.3
57.5°	188.1	172.3	172.3	191.8	271.2	1496.5	4372.9	5982.2
60°	169.3	159.0	156.0	175.4	285.8	1055.9	4410.5	6619.3
62.5°	148.6	143.2	139.0	159.6	296.7	625.7	4107.7	6465.3
65°	125.0	123.8	120.7	175.4	250.0	369.6	3526.3	5992.6
67.5°	105.0	103.1	103.1	183.9	189.9	232.5	2755.0	5342.0
70°	90.4	83.7	83.7	139.0	115.3	160.8	1923.7	4639.9
72.5°	75.8	68.6	63.8	111.0	86.2	117.8	1202.1	3973.6
75°	60.7	55.2	49.2	73.4	64.4	89.2	698.4	3292.1
77.5°	43.7	41.3	34.5	54.0	46.7	64.4	415.6	2540.3
80°	22.4	23.1	21.8	31.0	31.6	43.7	236.7	1738.6
82.5°	13.3	10.4	11.5	15.2	18.2	24.9	89.2	1021.9
85°	8.5	5.4	5.4	7.3	9.1	9.7	27.3	414.5
87.5°	4.2	1.8	2.5	3.7	3.1	2.5	1.2	104.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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