

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: P962580

Luminaire Tested: **NAV-SB2C-827-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962580
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-827-U-SLR-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

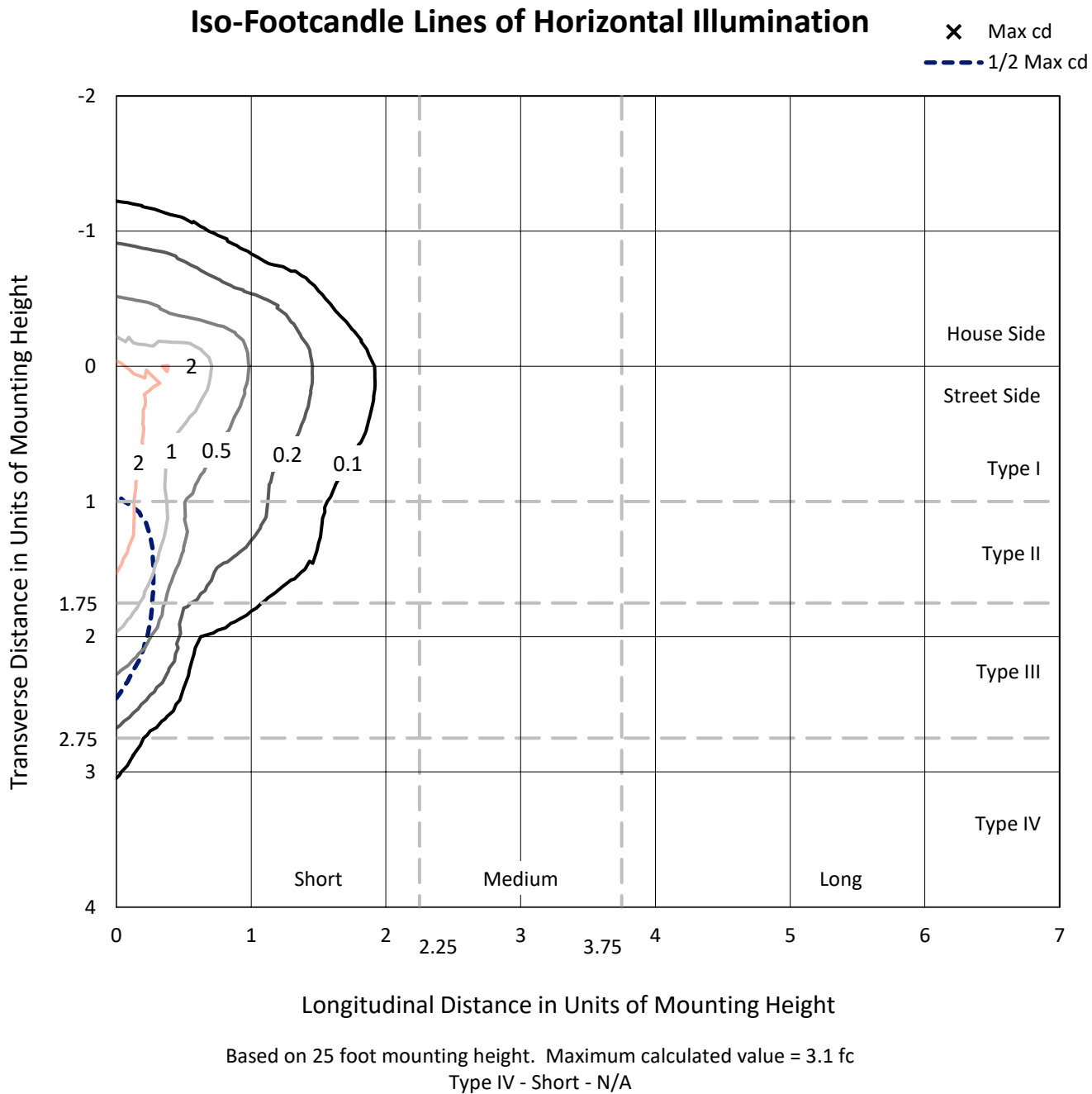
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10187.5 lumens
Efficiency: N/A
Efficacy: 101.0 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

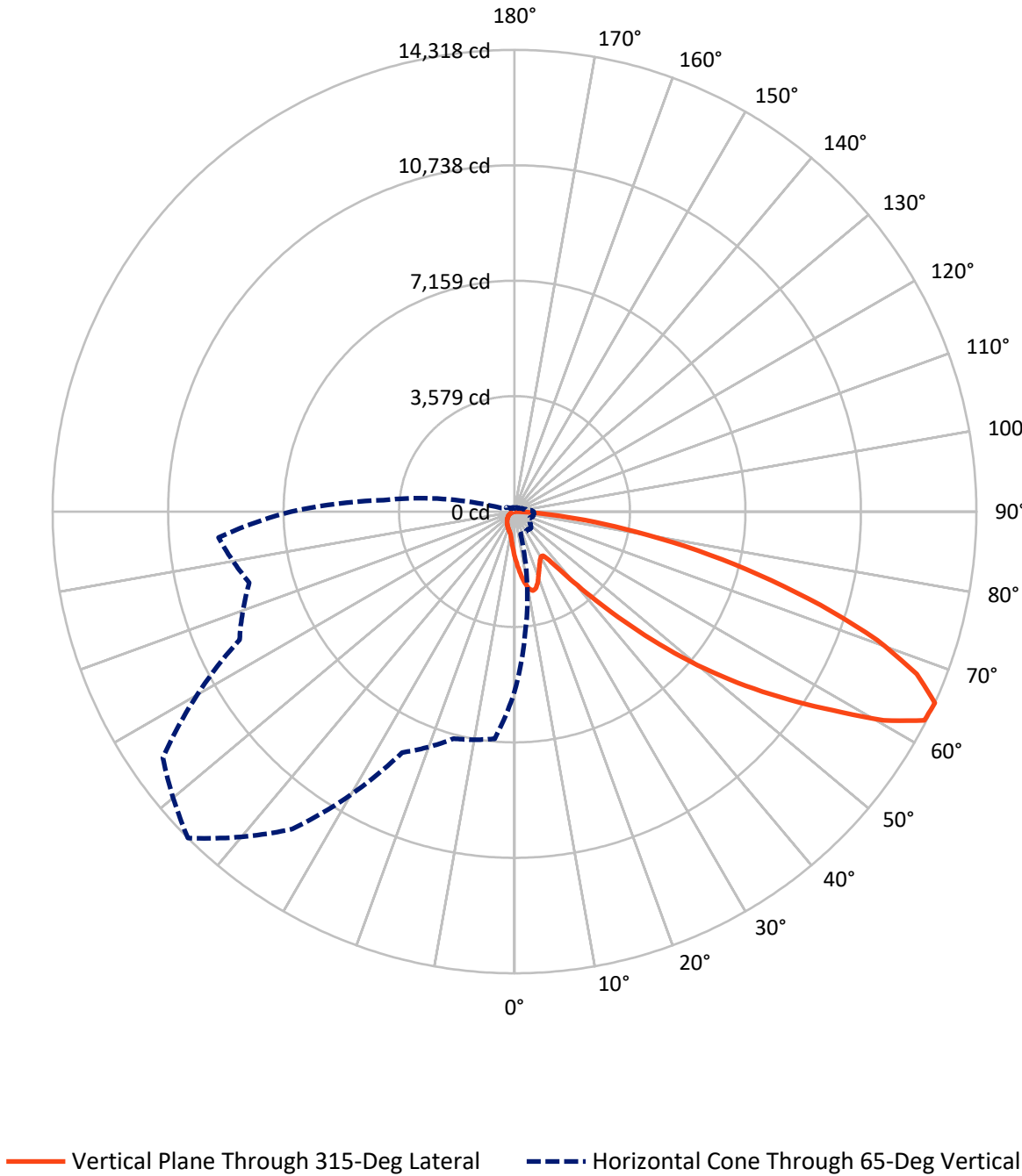


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1426.7	0.0	1426.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	8760.8	0.0	8760.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	10187.5	0.0	10187.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.9	1.4
10°-20°	416.3	4.1
20°-30°	613.3	6.0
30°-40°	788.0	7.7
40°-50°	1274.4	12.5
50°-60°	2234.8	21.9
60°-70°	2796.3	27.4
70°-80°	1634.0	16.0
80°-90°	291.5	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°	10187.5	100.0
0°-180°	10187.5	100.0

Coefficient of Utilization



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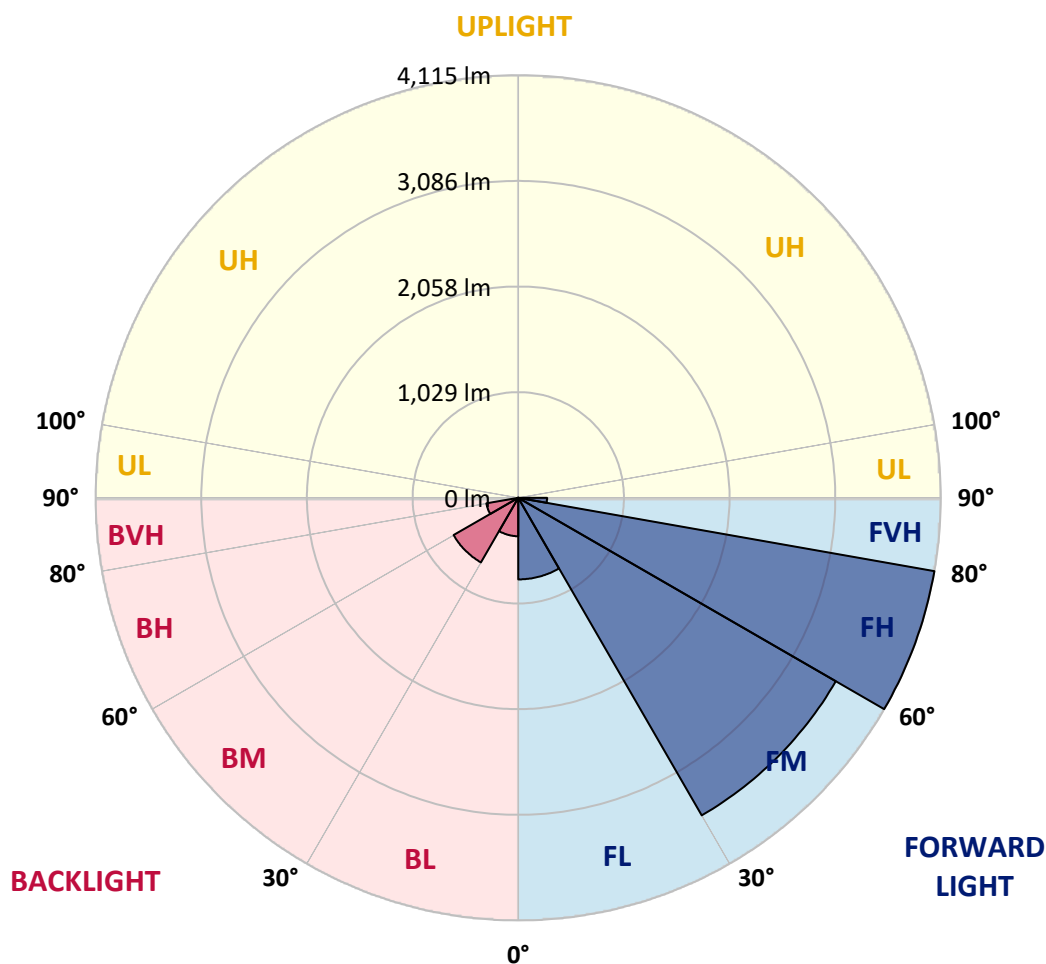
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	794.6	7.8			
FM	(30°-60°)	3570.6	35.0			
FH	(60°-80°)	4115.3	40.4			G2/5000
FVH	(80°-90°)	280.3	2.8			G3/500
BL	(0°-30°)	374.0	3.7	B1/500		
BM	(30°-60°)	726.5	7.1	B1/1000		
BH	(60°-80°)	315.0	3.1	B1/500		G1/500
BVH	(80°-90°)	11.2	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°	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6
2.5°	1593.8	1566.4	1550.3	1510.3	1470.3	1438.0	1394.5	1365.7	1331.4	1298.4	1268.8
5°	1776.3	1732.0	1678.7	1605.8	1539.0	1471.0	1405.1	1339.8	1271.0	1207.9	1169.2
7.5°	1930.7	1866.8	1772.7	1675.9	1591.0	1508.9	1431.7	1345.4	1261.9	1162.9	1110.3
10°	2048.6	1967.2	1843.7	1716.7	1619.1	1536.3	1461.1	1388.2	1304.0	1184.7	1118.7
12.5°	2120.2	2033.2	1886.5	1737.7	1626.1	1533.5	1475.2	1442.9	1409.9	1291.3	1214.1
15°	2172.8	2078.8	1916.6	1752.4	1610.0	1496.3	1453.4	1485.7	1523.7	1447.8	1358.7
17.5°	2227.5	2128.6	1955.9	1758.7	1566.4	1423.9	1405.7	1489.2	1577.0	1573.5	1485.0
20°	2279.5	2181.2	1990.3	1754.5	1496.3	1336.3	1352.4	1459.1	1560.9	1603.6	1555.9
22.5°	2339.2	2235.2	2023.4	1738.4	1405.1	1254.1	1304.6	1411.3	1500.5	1551.0	1536.3
25°	2412.1	2303.4	2069.7	1714.5	1306.8	1186.0	1256.2	1355.9	1428.2	1463.3	1462.6
27.5°	2490.8	2384.8	2131.4	1701.9	1227.4	1137.6	1201.5	1290.0	1354.5	1379.0	1379.0
30°	2588.2	2479.5	2204.4	1687.9	1175.6	1109.6	1144.6	1213.4	1276.6	1301.1	1301.1
32.5°	2694.9	2584.7	2274.6	1654.1	1144.0	1088.6	1089.2	1132.7	1190.2	1219.8	1224.0
35°	2828.3	2711.1	2349.7	1580.4	1118.7	1063.9	1035.1	1056.3	1103.9	1139.1	1148.2
37.5°	3018.5	2876.8	2441.5	1475.2	1081.5	1026.0	978.4	983.3	1019.8	1058.3	1072.4
40°	3280.9	3099.2	2549.7	1365.7	1028.2	972.7	915.8	913.8	940.4	978.4	993.7
42.5°	3636.1	3393.3	2679.6	1261.2	976.9	908.2	849.9	846.3	867.5	900.5	916.6
45°	4104.9	3769.4	2838.8	1171.4	937.0	845.0	787.4	786.1	803.6	832.3	849.2
47.5°	4705.0	4292.3	2998.1	1110.3	915.8	795.2	736.2	739.0	754.4	780.4	792.3
50°	5481.8	4973.7	3046.6	1079.4	915.8	768.4	690.5	704.6	717.3	736.9	743.9
52.5°	6413.1	5627.9	2886.5	1051.3	921.5	772.0	652.0	682.1	691.3	708.2	710.9
55°	7276.4	5948.6	2481.6	1012.7	922.9	793.8	619.0	663.9	680.8	687.1	686.3
57.5°	7777.5	5838.4	2006.4	947.4	917.3	808.5	598.0	641.4	673.7	677.9	671.7
60°	7682.1	5451.7	1477.3	897.6	875.9	802.9	591.6	607.1	658.3	664.6	656.2
62.5°	6946.5	4803.2	1025.3	859.1	784.6	778.3	589.5	553.0	624.6	640.0	628.1
65°	5583.6	3781.3	724.3	739.7	687.8	725.0	578.3	496.9	583.9	605.0	586.7
67.5°	4050.8	2558.8	522.9	599.3	623.2	638.7	553.0	456.2	537.6	565.7	541.8
70°	2599.5	1381.9	367.1	395.9	525.0	542.5	509.5	419.6	490.6	522.9	496.9
72.5°	1847.9	816.2	263.8	277.3	421.8	451.9	448.4	378.9	435.8	475.1	444.2
75°	1275.2	449.9	178.2	197.9	306.0	367.1	346.0	325.6	369.1	409.2	378.9
77.5°	799.4	201.4	106.7	137.6	200.7	288.4	237.2	251.9	287.7	324.9	293.4
80°	445.0	77.9	59.7	91.2	109.5	209.8	131.2	162.2	212.0	238.6	213.3
82.5°	96.9	9.8	26.6	39.3	42.8	122.1	69.5	94.0	133.4	131.2	113.7
85°	0.0	0.0	4.9	5.6	2.8	52.7	25.2	30.9	43.6	40.7	30.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	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°	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6
2.5°	1263.2	1228.9	1203.6	1190.9	1180.5	1190.2	1195.9	1195.9	1219.8	1233.8	1239.4
5°	1144.6	1082.9	1035.9	1004.3	985.3	991.7	998.7	1006.4	1036.6	1056.9	1070.3
7.5°	1062.5	967.8	896.3	852.0	828.8	832.3	837.2	843.6	873.1	893.4	910.9
10°	1047.1	910.9	809.9	751.6	723.5	718.6	715.9	713.7	731.3	746.7	760.8
12.5°	1110.3	913.8	772.6	701.8	667.4	652.7	635.8	622.5	625.4	635.1	652.7
15°	1223.2	949.6	760.8	675.9	633.0	608.4	588.9	572.7	569.2	572.7	575.4
17.5°	1352.4	997.9	759.3	653.3	600.0	574.8	558.6	543.9	538.9	539.7	543.2
20°	1438.0	1036.6	755.1	628.1	568.5	546.0	532.0	517.2	512.3	513.7	514.4
22.5°	1446.5	1056.9	748.9	600.0	536.9	517.9	503.9	490.6	489.8	489.8	494.0
25°	1400.8	1056.9	735.5	574.8	506.7	489.8	477.2	461.0	463.9	465.4	470.9
27.5°	1329.9	1031.7	710.2	554.4	480.7	463.2	450.6	435.8	439.3	441.5	447.7
30°	1259.7	999.4	680.1	531.3	456.2	435.8	426.7	414.1	415.4	418.3	425.3
32.5°	1194.4	965.0	644.2	512.3	431.6	411.2	404.3	390.2	392.3	395.1	402.8
35°	1130.0	927.1	602.2	489.8	409.2	388.8	383.1	367.1	368.5	372.7	381.1
37.5°	1060.5	887.1	567.7	467.4	387.4	366.3	360.7	343.9	345.3	350.2	360.0
40°	987.5	847.8	534.1	443.5	364.3	343.2	338.2	320.0	321.4	327.1	337.5
42.5°	913.8	804.9	508.1	412.7	340.4	318.0	313.0	296.1	298.3	304.6	315.1
45°	845.7	753.8	491.3	378.2	318.0	292.6	287.7	272.3	276.5	283.5	294.1
47.5°	787.4	701.1	484.2	349.5	294.1	266.7	262.5	249.9	256.9	264.6	273.0
50°	737.6	650.6	475.1	320.0	271.6	244.3	240.1	231.5	240.7	248.5	256.1
52.5°	701.8	593.1	455.5	293.4	251.9	225.3	223.9	219.7	228.1	235.1	242.1
55°	671.0	533.4	423.9	270.2	234.4	209.1	210.5	208.5	215.5	221.1	227.3
57.5°	642.9	481.4	383.9	251.9	215.5	195.1	199.4	196.5	200.0	203.6	211.3
60°	609.2	428.8	336.2	231.5	193.0	181.1	185.9	178.2	177.5	179.0	181.1
62.5°	559.3	357.9	286.4	206.3	173.3	165.6	167.7	153.0	141.8	141.8	143.9
65°	489.8	287.7	240.1	178.2	150.9	144.5	143.2	122.1	106.7	105.3	111.6
67.5°	409.2	236.5	199.4	150.2	125.7	121.5	122.8	107.4	91.9	90.5	97.6
70°	333.3	195.8	160.7	120.0	96.9	101.1	107.4	91.9	77.2	75.1	81.4
72.5°	270.9	155.8	125.7	91.9	71.5	83.5	91.2	75.1	61.1	59.7	65.3
75°	209.1	114.4	89.8	62.4	52.0	64.6	71.5	54.7	43.6	41.4	46.3
77.5°	139.7	70.9	50.5	39.3	30.9	44.2	47.8	28.8	25.2	24.6	28.1
80°	84.9	33.0	21.7	19.0	10.6	16.1	19.0	11.9	13.3	14.0	16.8
82.5°	42.8	9.1	3.5	0.7	0.0	0.0	5.6	2.8	5.6	7.0	10.6
85°	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	3.5	6.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6
2.5°	1278.7	1308.2	1336.3	1381.2	1427.5	1473.1	1519.5	1564.4	1580.4	1592.4	1619.1
5°	1131.3	1186.7	1251.3	1340.5	1435.9	1534.1	1633.8	1725.1	1766.5	1794.6	1857.7
7.5°	979.0	1051.3	1144.0	1278.0	1427.5	1584.0	1740.4	1884.4	1951.0	2005.1	2101.2
10°	828.1	906.7	1024.0	1176.9	1379.0	1603.6	1819.8	2017.7	2104.0	2172.1	2302.7
12.5°	695.5	769.2	892.0	1061.2	1303.3	1588.2	1865.4	2103.3	2205.1	2281.5	2424.7
15°	602.2	654.1	762.9	945.4	1213.4	1538.3	1868.3	2144.0	2255.6	2335.7	2459.8
17.5°	550.2	567.7	638.7	827.5	1113.8	1473.1	1842.2	2158.0	2277.3	2351.8	2438.1
20°	522.1	525.0	544.6	674.4	986.0	1412.0	1817.7	2172.1	2297.7	2360.2	2386.2
22.5°	499.7	499.7	504.6	551.7	821.1	1339.1	1809.9	2196.7	2325.8	2364.4	2311.1
25°	479.3	479.3	480.7	493.3	650.6	1227.4	1805.0	2234.6	2364.4	2374.9	2228.2
27.5°	458.3	459.0	459.0	466.0	524.3	1075.8	1784.0	2283.7	2410.7	2389.0	2148.9
30°	437.3	438.6	438.6	443.5	463.9	898.3	1742.6	2342.6	2471.1	2407.2	2070.3
32.5°	416.2	417.6	417.6	421.8	436.5	717.3	1690.6	2396.7	2532.2	2414.9	1997.3
35°	394.4	396.6	395.1	400.8	416.2	570.6	1624.7	2450.7	2598.1	2439.5	1961.5
37.5°	372.7	374.0	373.4	378.9	396.6	492.7	1548.2	2491.5	2688.0	2494.2	2004.4
40°	350.9	350.2	350.2	356.5	375.5	470.2	1452.0	2556.0	2817.1	2590.4	2191.0
42.5°	328.4	328.4	327.1	334.0	357.2	453.4	1360.1	2671.8	3005.2	2743.4	2522.3
45°	308.1	307.4	304.6	310.9	339.7	423.9	1327.8	2887.9	3283.1	2991.2	2923.0
47.5°	288.4	287.7	280.7	286.4	318.7	397.2	1448.5	3241.7	3668.4	3355.3	3298.6
50°	270.9	271.6	258.3	263.2	297.6	376.9	1710.3	3700.7	4180.0	3845.9	3654.3
52.5°	254.7	254.7	237.2	240.1	271.6	358.6	1959.5	4198.2	4855.1	4530.2	4069.1
55°	238.6	237.2	217.6	218.9	245.6	332.6	1996.7	4683.8	5775.9	5559.7	4636.2
57.5°	220.4	217.6	199.4	199.4	221.8	313.8	1730.7	5057.2	6918.4	7072.8	5453.8
60°	197.9	195.8	183.9	180.4	202.8	330.6	1221.2	5100.8	7655.3	9085.0	7019.5
62.5°	169.1	171.9	165.6	160.7	184.6	343.2	723.5	4750.6	7477.1	9725.0	8894.7
65°	133.4	144.5	143.2	139.7	202.8	289.2	427.4	4078.3	6930.3	9208.5	8512.2
67.5°	113.7	121.5	119.3	119.3	212.7	219.7	268.8	3186.2	6178.1	8595.8	7603.4
70°	96.9	104.6	96.9	96.9	160.7	133.4	185.9	2224.8	5366.1	7917.8	7006.9
72.5°	80.1	87.7	79.3	73.7	128.4	99.6	136.1	1390.3	4595.5	7211.8	6598.4
75°	61.1	70.2	63.9	56.9	84.9	74.4	103.1	807.8	3807.4	6170.3	6016.6
77.5°	38.6	50.5	47.8	40.0	62.4	54.0	74.4	480.7	2937.8	4821.4	5175.1
80°	23.9	25.9	26.6	25.2	35.8	36.5	50.5	273.7	2010.6	3360.3	4043.1
82.5°	15.5	15.5	11.9	13.3	17.5	21.0	28.8	103.1	1181.8	2045.8	2814.2
85°	11.3	9.8	6.4	6.4	8.4	10.6	11.3	31.6	479.3	807.8	1100.4
87.5°	5.6	4.9	2.2	2.8	4.2	3.5	2.8	1.4	120.7	258.3	181.1
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°	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6	1410.6
2.5°	1633.1	1654.9	1656.3	1656.3	1637.3	1636.6	1598.0	1593.8
5°	1923.0	1937.0	1940.5	1933.5	1895.6	1867.5	1792.4	1776.3
7.5°	2188.3	2216.4	2216.4	2199.4	2137.7	2080.1	1971.4	1930.7
10°	2400.2	2432.4	2425.5	2391.0	2313.1	2233.9	2102.0	2048.6
12.5°	2503.4	2536.4	2518.1	2478.8	2403.0	2319.5	2180.5	2120.2
15°	2501.2	2492.1	2473.2	2468.3	2431.8	2368.6	2238.8	2172.8
17.5°	2412.1	2335.0	2320.2	2369.3	2415.6	2400.2	2289.3	2227.5
20°	2271.1	2136.3	2123.0	2217.0	2349.0	2416.3	2336.3	2279.5
22.5°	2122.3	1977.0	1946.2	2050.0	2248.6	2421.3	2395.9	2339.2
25°	1981.2	1835.3	1804.3	1901.2	2137.0	2412.8	2460.5	2412.1
27.5°	1863.3	1722.2	1693.5	1790.4	2029.6	2389.0	2525.1	2490.8
30°	1772.1	1641.5	1620.5	1713.8	1937.0	2359.4	2607.2	2588.2
32.5°	1718.7	1623.3	1631.0	1707.5	1887.1	2327.2	2685.8	2694.9
35°	1771.4	1775.6	1843.0	1874.5	1933.5	2322.3	2792.5	2828.3
37.5°	2033.2	2179.1	2318.8	2292.8	2160.2	2379.1	2951.8	3018.5
40°	2478.8	2778.5	3005.2	2906.2	2572.1	2553.2	3181.3	3280.9
42.5°	3023.4	3531.5	3904.8	3639.6	3103.4	2857.8	3509.1	3636.1
45°	3598.2	4460.0	5048.1	4496.5	3669.8	3284.5	4005.2	4104.9
47.5°	4203.8	5588.5	6349.3	5446.7	4194.7	3770.2	4681.8	4705.0
50°	4866.4	6825.8	7675.7	6396.3	4701.5	4326.6	5508.6	5481.8
52.5°	5497.3	8098.2	8974.1	7350.1	5146.4	5017.3	6467.9	6413.1
55°	6099.5	9369.8	10280.1	8266.6	5566.1	5929.6	7607.7	7276.4
57.5°	6797.7	10513.1	11626.2	9187.4	6152.8	7114.2	8882.1	7777.5
60°	7830.1	11812.2	13148.4	10449.3	7268.7	8359.3	9339.0	7682.1
62.5°	9148.1	13006.6	14255.2	11685.8	8389.4	8593.7	8666.0	6946.5
65°	9404.3	13309.1	14317.6	12016.4	8244.9	7289.7	7075.0	5583.6
67.5°	8724.9	12762.4	13444.6	11400.9	7293.2	5633.4	5309.2	4050.8
70°	7962.7	11720.3	11923.1	10354.6	6414.6	4143.5	3585.6	2599.5
72.5°	7181.7	10329.9	9910.3	8992.3	5637.6	3017.1	2586.2	1847.9
75°	6253.8	8501.8	7806.2	7471.4	4667.7	2368.0	1871.0	1275.2
77.5°	5008.2	5984.4	5798.3	5791.4	3507.7	1730.0	1248.6	799.4
80°	3532.9	3883.8	3789.1	4361.8	2353.2	1254.8	751.6	445.0
82.5°	1710.3	2147.6	2204.4	2597.4	1144.6	738.3	173.3	96.9
85°	669.5	1035.9	873.7	986.0	321.4	205.6	4.2	0.0
87.5°	75.1	120.0	110.2	87.0	39.3	8.4	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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