

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: P961495

Luminaire Tested: **NAV-SB2A-760-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961495
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-760-U-SLR-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

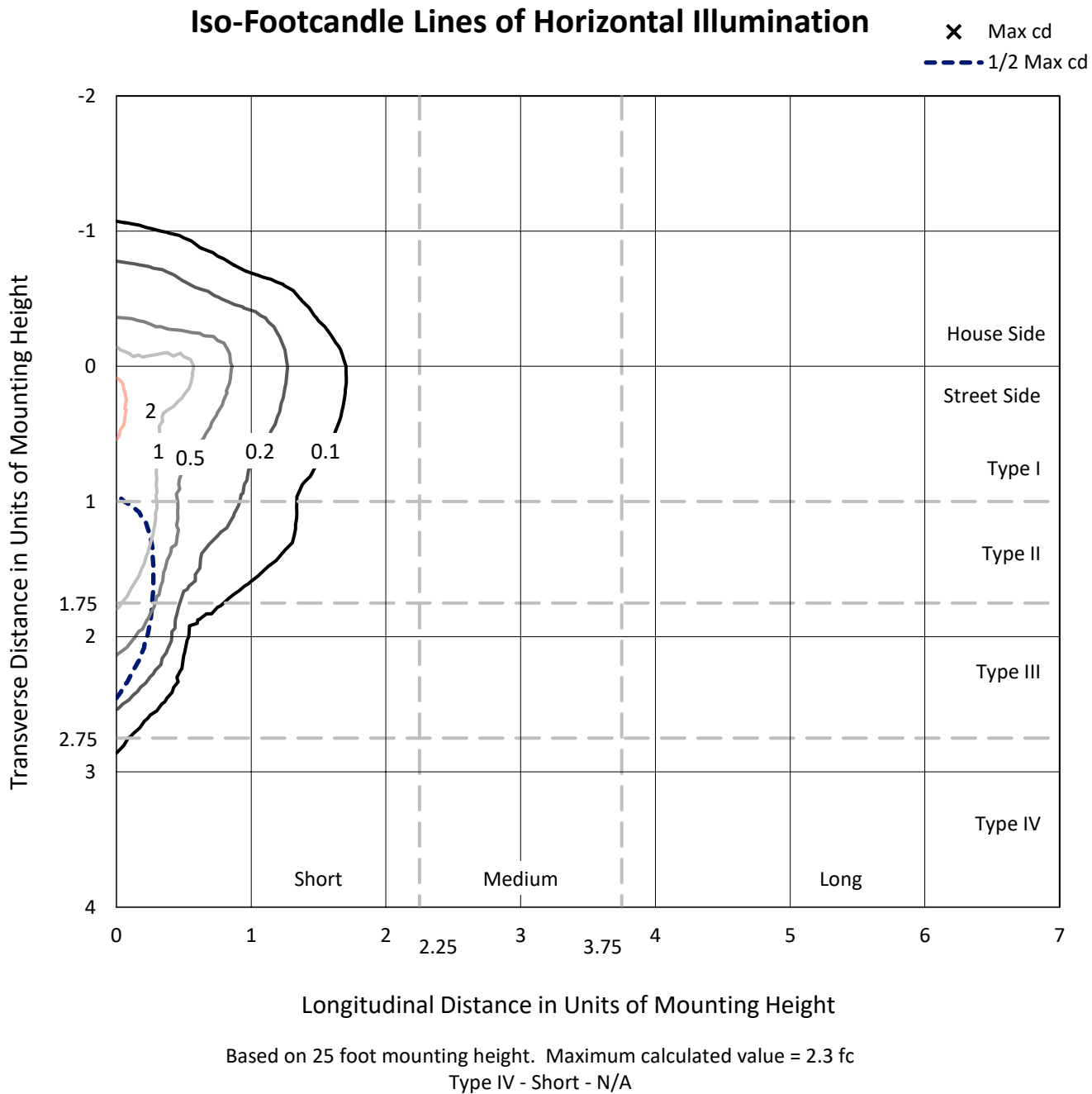
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7424.1 lumens
Efficiency: N/A
Efficacy: 129.6 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

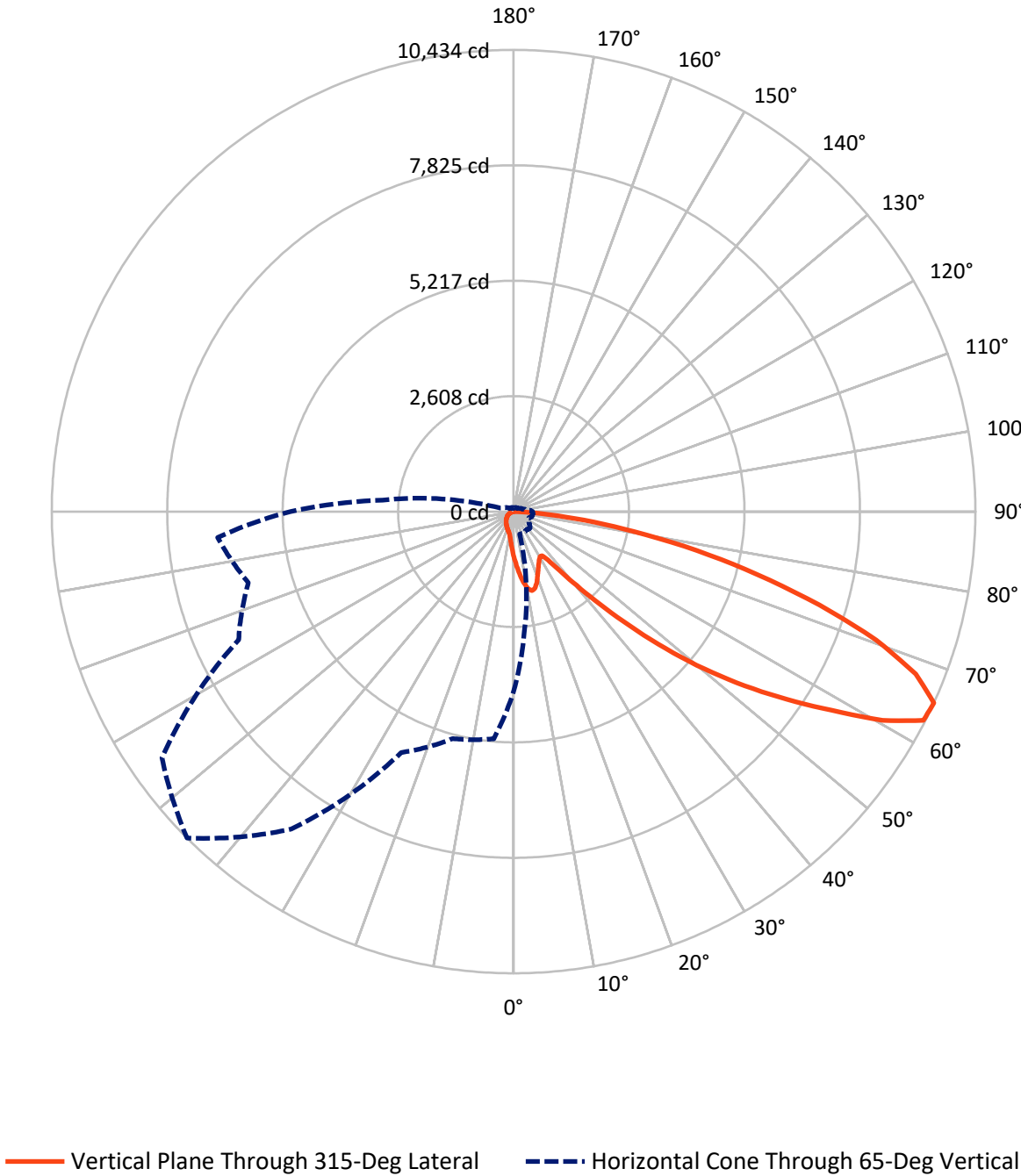


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Luminous Intensity Polar Plot



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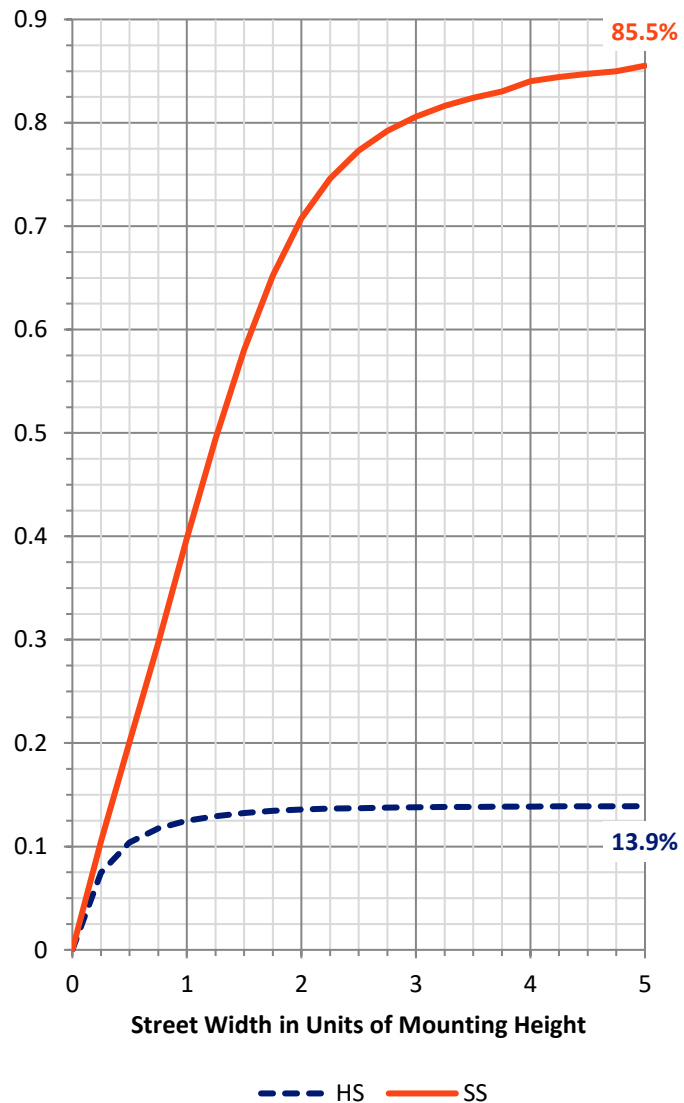
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1039.7	0.0	1039.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	6384.4	0.0	6384.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	7424.1	0.0	7424.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	1.4
10°-20°	303.4	4.1
20°-30°	447.0	6.0
30°-40°	574.2	7.7
40°-50°	928.7	12.5
50°-60°	1628.6	21.9
60°-70°	2037.8	27.4
70°-80°	1190.8	16.0
80°-90°	212.5	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°	7424.1	100.0
0°-180°	7424.1	100.0

Coefficient of Utilization



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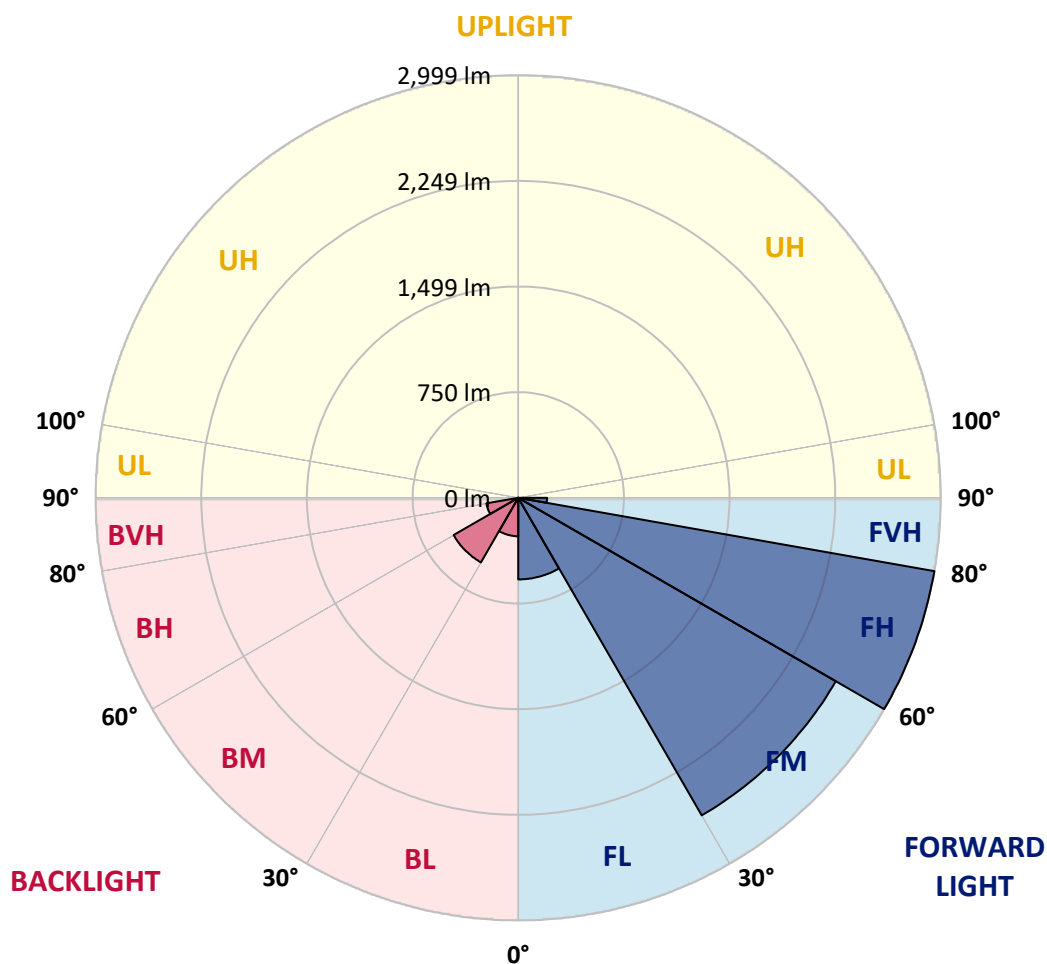
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	579.1	7.8			
FM	(30°-60°)	2602.1	35.0			
FH	(60°-80°)	2999.0	40.4			G2/5000
FVH	(80°-90°)	204.3	2.8			G2/225
BL	(0°-30°)	272.5	3.7	B1/500		
BM	(30°-60°)	529.4	7.1	B1/1000		
BH	(60°-80°)	229.6	3.1	B1/500		G1/500
BVH	(80°-90°)	8.2	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°	1028.0	1028.0	1028.0	1028.0	1028.0	1028.0	1028.0	1028.0	1028.0	1028.0	1028.0
2.5°	1161.5	1141.5	1129.8	1100.6	1071.4	1048.0	1016.2	995.3	970.2	946.2	924.7
5°	1294.5	1262.3	1223.3	1170.1	1121.6	1071.9	1023.9	976.3	926.2	880.2	852.1
7.5°	1407.0	1360.5	1291.9	1221.3	1159.5	1099.6	1043.3	980.4	919.5	847.5	809.1
10°	1492.9	1433.6	1343.6	1251.0	1179.9	1119.5	1064.8	1011.7	950.3	863.4	815.3
12.5°	1545.1	1481.6	1374.7	1266.3	1185.0	1117.5	1075.0	1051.5	1027.5	941.1	884.8
15°	1583.4	1514.8	1396.8	1277.0	1173.2	1090.4	1059.2	1082.7	1110.4	1055.1	990.1
17.5°	1623.3	1551.2	1425.4	1281.7	1141.5	1037.7	1024.4	1085.3	1149.2	1146.7	1082.2
20°	1661.1	1589.6	1450.5	1278.6	1090.4	973.7	985.5	1063.3	1137.4	1168.6	1133.9
22.5°	1704.7	1628.9	1474.5	1266.8	1023.9	914.0	950.8	1028.5	1093.5	1130.3	1119.5
25°	1757.8	1678.5	1508.3	1249.5	952.3	864.4	915.5	988.1	1040.8	1066.3	1065.8
27.5°	1815.1	1737.9	1553.3	1240.2	894.5	829.0	875.6	940.0	987.1	1005.0	1005.0
30°	1886.2	1807.0	1606.5	1230.0	856.7	808.6	834.1	884.3	930.3	948.2	948.2
32.5°	1963.9	1883.6	1657.6	1205.5	833.6	793.2	793.8	825.4	867.4	888.9	892.0
35°	2061.1	1975.7	1712.3	1151.8	815.3	775.3	754.4	769.7	804.5	830.0	836.7
37.5°	2199.8	2096.4	1779.3	1075.0	788.1	747.7	713.0	716.6	743.1	771.2	781.5
40°	2391.0	2258.5	1858.0	995.3	749.3	708.9	667.5	665.9	685.3	713.0	724.2
42.5°	2649.7	2472.8	1952.7	919.0	712.0	661.8	619.3	616.8	632.1	656.2	668.0
45°	2991.5	2747.0	2068.8	853.6	682.8	615.8	573.8	572.8	585.6	606.6	618.9
47.5°	3428.7	3128.0	2184.9	809.1	667.5	579.4	536.5	538.5	549.8	568.8	577.4
50°	3994.8	3624.6	2220.1	786.6	667.5	560.1	503.3	513.5	522.6	537.0	542.1
52.5°	4673.6	4101.2	2103.6	766.2	671.5	562.6	475.1	497.1	503.8	516.1	518.1
55°	5302.6	4334.9	1808.4	738.0	672.5	578.4	451.1	483.8	496.1	500.7	500.2
57.5°	5667.8	4254.7	1462.2	690.4	668.4	589.2	435.7	467.5	491.0	494.0	489.4
60°	5598.2	3972.9	1076.6	654.2	638.3	585.1	431.1	442.4	479.7	484.3	478.2
62.5°	5062.3	3500.3	747.2	626.0	571.7	567.2	429.6	403.0	455.2	466.5	457.8
65°	4069.0	2755.6	527.8	539.0	501.2	528.3	421.4	362.1	425.5	440.9	427.5
67.5°	2952.0	1864.7	381.0	436.8	454.2	465.5	403.0	332.4	391.8	412.3	394.8
70°	1894.4	1007.1	267.5	288.4	382.5	395.3	371.4	305.9	357.5	381.0	362.1
72.5°	1346.6	594.8	192.3	202.0	307.4	329.3	326.8	276.1	317.6	346.2	323.7
75°	929.3	327.8	129.9	144.2	222.9	267.5	252.2	237.3	269.1	298.2	276.1
77.5°	582.5	146.8	77.7	100.2	146.3	210.2	172.9	183.6	209.7	236.8	213.8
80°	324.2	56.8	43.5	66.5	79.7	152.9	95.6	118.2	154.5	173.8	155.5
82.5°	70.6	7.2	19.5	28.6	31.2	89.0	50.6	68.6	97.2	95.6	82.8
85°	0.0	0.0	3.6	4.1	2.0	38.3	18.4	22.5	31.7	29.6	22.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	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°	1028.0	1028.0	1028.0	1028.0	1028.0	1028.0	1028.0	1028.0	1028.0	1028.0	1028.0
2.5°	920.6	895.5	877.1	867.9	860.3	867.4	871.5	871.5	888.9	899.1	903.2
5°	834.1	789.1	754.9	731.8	718.0	722.6	727.7	733.4	755.4	770.2	779.9
7.5°	774.3	705.3	653.1	620.8	604.0	606.6	610.2	614.8	636.2	651.1	663.9
10°	763.1	663.9	590.2	547.8	527.3	523.7	521.6	520.1	532.9	544.2	554.4
12.5°	809.1	665.9	563.1	511.5	486.4	475.6	463.4	453.7	455.7	462.9	475.6
15°	891.4	692.0	554.4	492.5	461.4	443.4	429.1	417.4	414.8	417.4	419.4
17.5°	985.5	727.2	553.4	476.1	437.3	418.9	407.1	396.4	392.8	393.3	395.9
20°	1048.0	755.4	550.3	457.8	414.3	397.9	387.7	376.9	373.3	374.3	374.8
22.5°	1054.1	770.2	545.7	437.3	391.2	377.4	367.3	357.5	357.0	357.0	360.1
25°	1020.8	770.2	536.0	418.9	369.3	357.0	347.8	336.0	338.0	339.1	343.2
27.5°	969.1	751.8	517.6	404.1	350.3	337.5	328.3	317.6	320.2	321.7	326.3
30°	918.0	728.3	495.6	387.1	332.4	317.6	311.0	301.8	302.8	304.8	310.0
32.5°	870.4	703.3	469.6	373.3	314.6	299.7	294.6	284.3	285.9	287.9	293.6
35°	823.4	675.6	438.8	357.0	298.2	283.3	279.2	267.5	268.5	271.6	277.7
37.5°	772.7	646.5	413.8	340.6	282.3	267.0	262.9	250.6	251.6	255.2	262.4
40°	719.6	617.9	389.2	323.2	265.5	250.1	246.5	233.2	234.2	238.3	246.0
42.5°	665.9	586.6	370.3	300.7	248.0	231.6	228.1	215.9	217.4	222.0	229.6
45°	616.3	549.3	358.0	275.6	231.6	213.3	209.7	198.4	201.5	206.6	214.3
47.5°	573.8	511.0	352.9	254.7	214.3	194.3	191.3	182.0	187.2	192.8	199.0
50°	537.5	474.1	346.2	233.2	197.9	177.9	174.9	168.8	175.4	181.0	186.7
52.5°	511.5	432.1	331.9	213.8	183.6	164.2	163.2	160.1	166.3	171.4	176.4
55°	488.9	388.7	308.9	196.9	170.9	152.4	153.4	151.9	157.0	161.1	165.7
57.5°	468.5	350.9	279.7	183.6	157.0	142.2	145.2	143.2	145.8	148.3	154.0
60°	443.9	312.5	245.0	168.8	140.6	131.9	135.5	129.9	129.4	130.4	131.9
62.5°	407.6	260.9	208.7	150.4	126.3	120.7	122.3	111.5	103.3	103.3	104.9
65°	357.0	209.7	174.9	129.9	110.0	105.4	104.3	89.0	77.7	76.7	81.3
67.5°	298.2	172.4	145.2	109.5	91.5	88.5	89.5	78.2	67.0	66.0	71.1
70°	242.9	142.7	117.2	87.4	70.6	73.7	78.2	67.0	56.3	54.7	59.3
72.5°	197.4	113.6	91.5	67.0	52.2	60.9	66.5	54.7	44.5	43.5	47.6
75°	152.4	83.3	65.5	45.5	37.8	47.0	52.2	39.9	31.7	30.1	33.7
77.5°	101.8	51.7	36.8	28.6	22.5	32.2	34.7	21.0	18.4	17.9	20.5
80°	61.9	24.1	15.9	13.8	7.7	11.8	13.8	8.7	9.7	10.2	12.3
82.5°	31.2	6.7	2.6	0.5	0.0	0.0	4.1	2.0	4.1	5.1	7.7
85°	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.6	4.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
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°	1028.0	1028.0	1028.0	1028.0	1028.0	1028.0	1028.0	1028.0	1028.0	1028.0	1028.0
2.5°	931.8	953.4	973.7	1006.6	1040.3	1073.5	1107.3	1140.0	1151.8	1160.5	1179.9
5°	824.4	864.9	911.9	976.8	1046.4	1118.0	1190.6	1257.2	1287.3	1307.8	1353.8
7.5°	713.5	766.2	833.6	931.3	1040.3	1154.4	1268.3	1373.2	1421.8	1461.1	1531.2
10°	603.5	660.8	746.2	857.7	1005.0	1168.6	1326.1	1470.4	1533.3	1582.9	1678.0
12.5°	506.9	560.6	650.1	773.3	949.8	1157.4	1359.5	1532.8	1607.0	1662.7	1767.0
15°	438.8	476.6	556.0	688.9	884.3	1121.0	1361.5	1562.4	1643.8	1702.1	1792.6
17.5°	401.0	413.8	465.5	603.0	811.7	1073.5	1342.5	1572.7	1659.6	1713.8	1776.7
20°	380.5	382.5	396.9	491.5	718.5	1029.0	1324.6	1582.9	1674.4	1720.0	1738.9
22.5°	364.2	364.2	367.8	402.0	598.4	975.8	1319.0	1600.8	1694.9	1723.0	1684.2
25°	349.3	349.3	350.3	359.6	474.1	894.5	1315.4	1628.4	1723.0	1730.7	1623.8
27.5°	333.9	334.5	334.5	339.6	382.0	784.0	1300.1	1664.2	1756.8	1741.0	1566.0
30°	318.7	319.7	319.7	323.2	338.0	654.7	1269.9	1707.2	1800.8	1754.3	1508.8
32.5°	303.3	304.3	304.3	307.4	318.2	522.6	1232.0	1746.6	1845.3	1759.8	1455.6
35°	287.4	288.9	287.9	292.0	303.3	415.8	1184.0	1786.0	1893.4	1777.8	1429.5
37.5°	271.6	272.5	272.1	276.1	288.9	359.1	1128.2	1815.6	1958.8	1817.6	1460.6
40°	255.7	255.2	255.2	259.8	273.6	342.7	1058.2	1862.6	2053.0	1887.7	1596.7
42.5°	239.3	239.3	238.3	243.4	260.3	330.4	991.2	1947.1	2190.0	1999.3	1838.1
45°	224.5	224.0	222.0	226.5	247.5	308.9	967.6	2104.5	2392.6	2179.8	2130.2
47.5°	210.2	209.7	204.6	208.7	232.2	289.5	1055.6	2362.3	2673.3	2445.2	2403.7
50°	197.4	197.9	188.2	191.8	216.9	274.6	1246.4	2696.9	3046.1	2802.7	2663.1
52.5°	185.6	185.6	172.9	174.9	197.9	261.4	1427.9	3059.4	3538.2	3301.3	2965.3
55°	173.8	172.9	158.6	159.6	179.0	242.4	1455.1	3413.4	4209.2	4051.6	3378.6
57.5°	160.6	158.6	145.2	145.2	161.6	228.6	1261.3	3685.5	5041.8	5154.3	3974.4
60°	144.2	142.7	134.0	131.4	147.8	240.9	889.9	3717.2	5578.8	6620.6	5115.5
62.5°	123.3	125.3	120.7	117.2	134.5	250.1	527.3	3461.9	5448.9	7087.1	6482.0
65°	97.2	105.4	104.3	101.8	147.8	210.7	311.5	2972.0	5050.5	6710.6	6203.3
67.5°	82.8	88.5	86.9	86.9	155.0	160.1	195.9	2321.9	4502.2	6264.1	5540.9
70°	70.6	76.2	70.6	70.6	117.2	97.2	135.5	1621.2	3910.5	5770.0	5106.2
72.5°	58.3	64.0	57.8	53.7	93.6	72.7	99.2	1013.2	3348.9	5255.6	4808.6
75°	44.5	51.1	46.5	41.4	61.9	54.2	75.1	588.7	2774.6	4496.6	4384.5
77.5°	28.1	36.8	34.7	29.1	45.5	39.4	54.2	350.3	2140.9	3513.6	3771.4
80°	17.4	19.0	19.5	18.4	26.0	26.5	36.8	199.5	1465.2	2448.8	2946.4
82.5°	11.3	11.3	8.7	9.7	12.8	15.4	21.0	75.1	861.3	1490.9	2050.9
85°	8.2	7.2	4.6	4.6	6.1	7.7	8.2	23.1	349.3	588.7	802.0
87.5°	4.1	3.6	1.5	2.0	3.1	2.6	2.0	1.0	87.9	188.2	131.9
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°	1028.0	1028.0	1028.0	1028.0	1028.0	1028.0	1028.0	1028.0
2.5°	1190.1	1206.0	1207.0	1207.0	1193.2	1192.7	1164.5	1161.5
5°	1401.4	1411.5	1414.1	1409.1	1381.4	1361.0	1306.3	1294.5
7.5°	1594.7	1615.1	1615.1	1602.9	1557.9	1515.9	1436.6	1407.0
10°	1749.2	1772.6	1767.5	1742.5	1685.7	1627.9	1531.8	1492.9
12.5°	1824.3	1848.4	1835.1	1806.5	1751.2	1690.3	1589.1	1545.1
15°	1822.8	1816.1	1802.4	1798.8	1772.1	1726.1	1631.5	1583.4
17.5°	1757.8	1701.6	1690.8	1726.6	1760.3	1749.2	1668.3	1623.3
20°	1655.1	1556.9	1547.1	1615.6	1711.7	1760.8	1702.6	1661.1
22.5°	1546.6	1440.7	1418.2	1493.9	1638.7	1764.4	1746.1	1704.7
25°	1443.8	1337.4	1314.9	1385.5	1557.4	1758.3	1793.1	1757.8
27.5°	1357.9	1255.1	1234.1	1304.7	1479.1	1741.0	1840.2	1815.1
30°	1291.4	1196.3	1180.9	1249.0	1411.5	1719.4	1900.0	1886.2
32.5°	1252.6	1183.0	1188.6	1244.4	1375.2	1696.0	1957.2	1963.9
35°	1290.9	1294.0	1343.1	1366.0	1409.1	1692.4	2035.0	2061.1
37.5°	1481.6	1588.0	1689.8	1670.9	1574.2	1733.8	2151.2	2199.8
40°	1806.5	2024.8	2190.0	2117.9	1874.4	1860.6	2318.3	2391.0
42.5°	2203.2	2573.6	2845.7	2652.3	2261.6	2082.6	2557.2	2649.7
45°	2622.2	3250.2	3678.8	3276.8	2674.3	2393.6	2918.8	2991.5
47.5°	3063.5	4072.6	4627.1	3969.3	3056.9	2747.5	3411.8	3428.7
50°	3546.3	4974.3	5593.6	4661.3	3426.2	3153.0	4014.3	3994.8
52.5°	4006.1	5901.5	6539.8	5356.3	3750.4	3656.3	4713.5	4673.6
55°	4444.9	6828.2	7491.6	6024.2	4056.2	4321.2	5544.0	5302.6
57.5°	4953.8	7661.4	8472.5	6695.3	4483.8	5184.4	6472.8	5667.8
60°	5706.2	8608.1	9581.8	7614.8	5297.0	6091.8	6805.8	5598.2
62.5°	6666.6	9478.6	10388.4	8516.0	6113.8	6262.6	6315.2	5062.3
65°	6853.4	9699.0	10433.9	8756.9	6008.4	5312.4	5155.9	4069.0
67.5°	6358.3	9300.5	9797.7	8308.3	5314.9	4105.3	3869.1	2952.0
70°	5802.8	8541.0	8688.9	7545.8	4674.6	3019.5	2612.9	1894.4
72.5°	5233.5	7527.9	7222.0	6553.1	4108.4	2198.7	1884.7	1346.6
75°	4557.5	6195.6	5688.7	5444.8	3401.6	1725.6	1363.5	929.3
77.5°	3649.6	4361.1	4225.6	4220.4	2556.1	1260.8	909.9	582.5
80°	2574.6	2830.3	2761.2	3178.6	1714.8	914.5	547.8	324.2
82.5°	1246.4	1565.0	1606.5	1892.9	834.1	538.0	126.3	70.6
85°	487.9	754.9	636.7	718.5	234.2	149.9	3.1	0.0
87.5°	54.7	87.4	80.3	63.4	28.6	6.1	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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