

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: P961441

Luminaire Tested: **NAV-SB2A-740-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961441
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-740-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9639.1 lumens
Efficiency: N/A
Efficacy: 168.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - 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



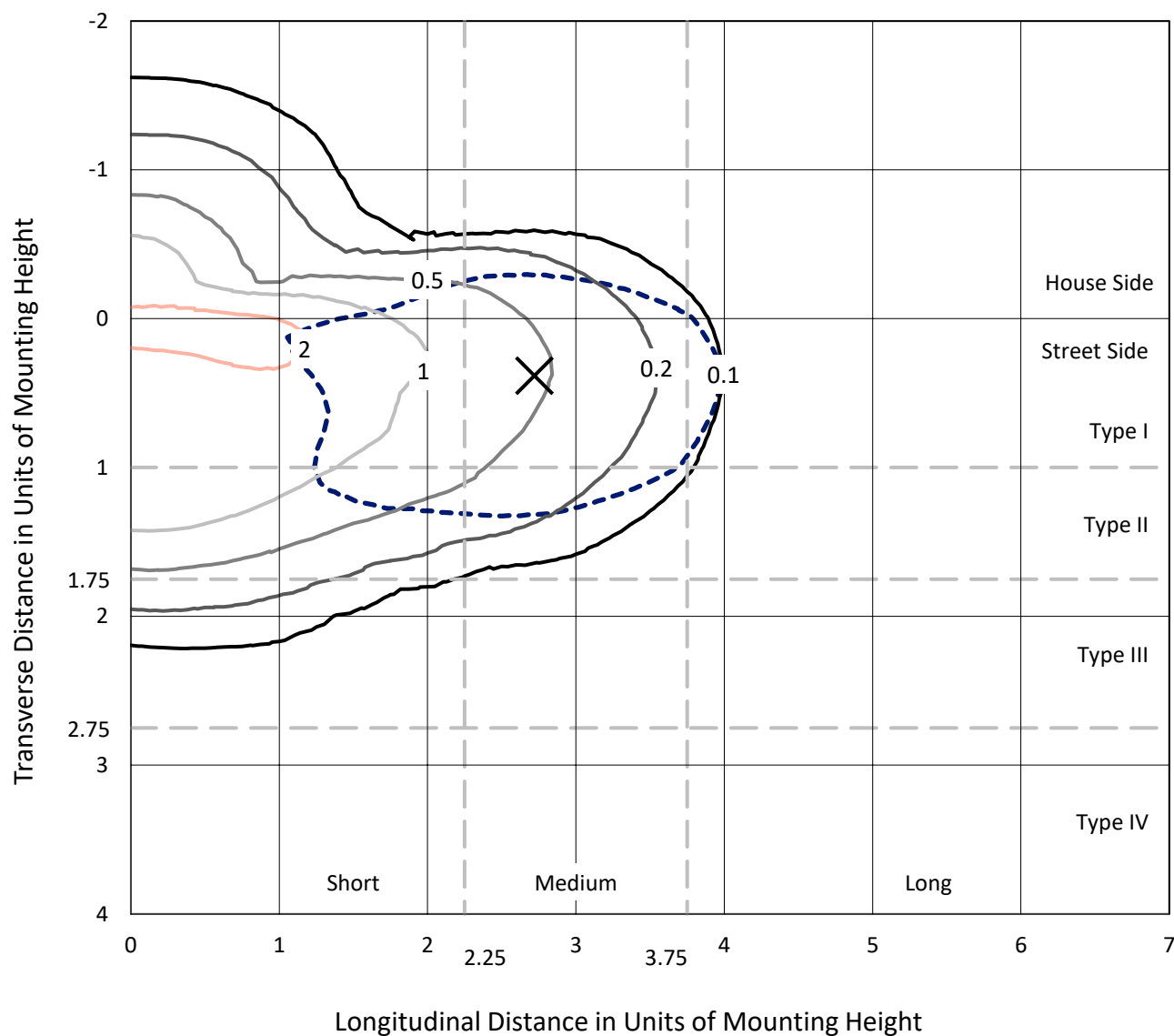
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

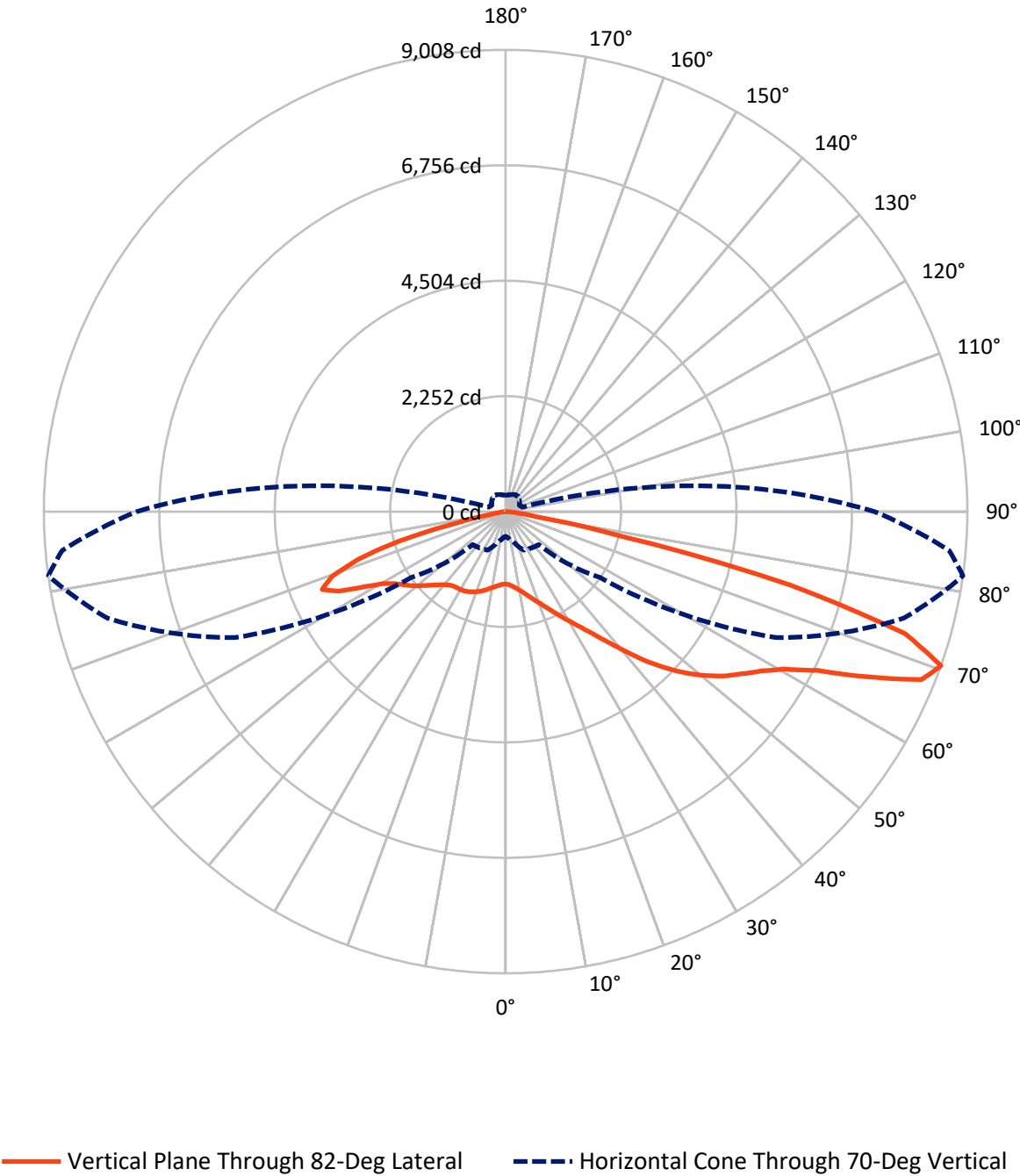
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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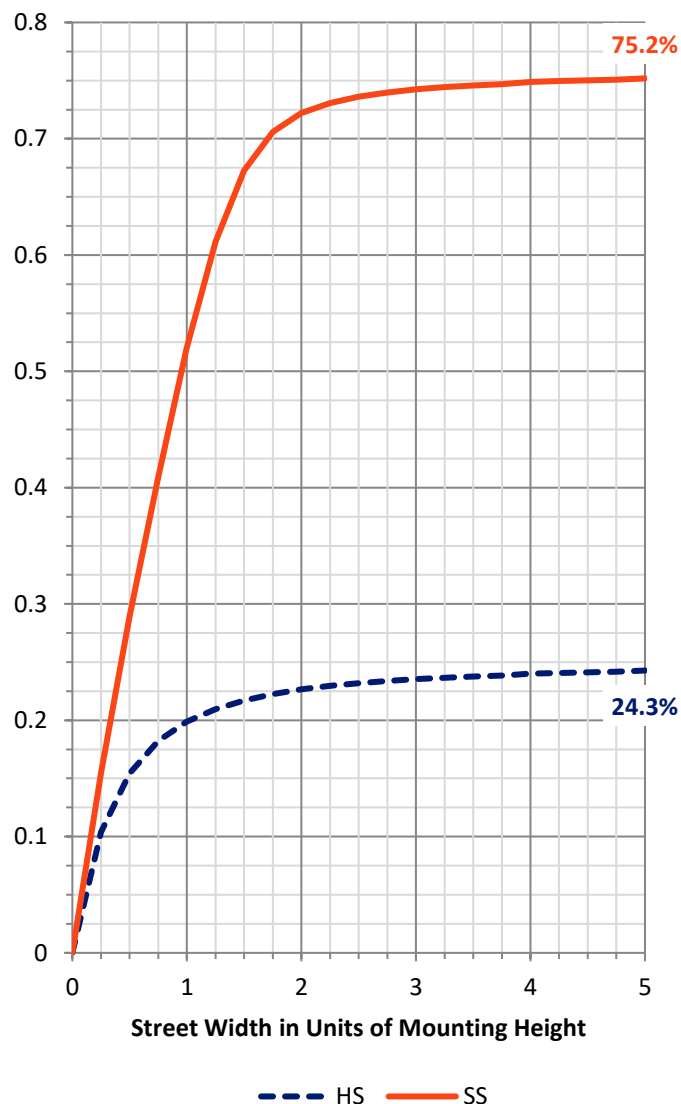
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2376.3	0.0	2376.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	7262.8	0.0	7262.8
	% Fixture	75.3	0.0	75.3
Total	Lumens	9639.1	0.0	9639.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.4	1.4
10°-20°	383.4	4.0
20°-30°	641.3	6.7
30°-40°	1001.9	10.4
40°-50°	1595.7	16.6
50°-60°	2220.6	23.0
60°-70°	2322.8	24.1
70°-80°	1214.0	12.6
80°-90°	126.1	1.3
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°	9639.1	100.0
0°-180°	9639.1	100.0

Coefficient of Utilization



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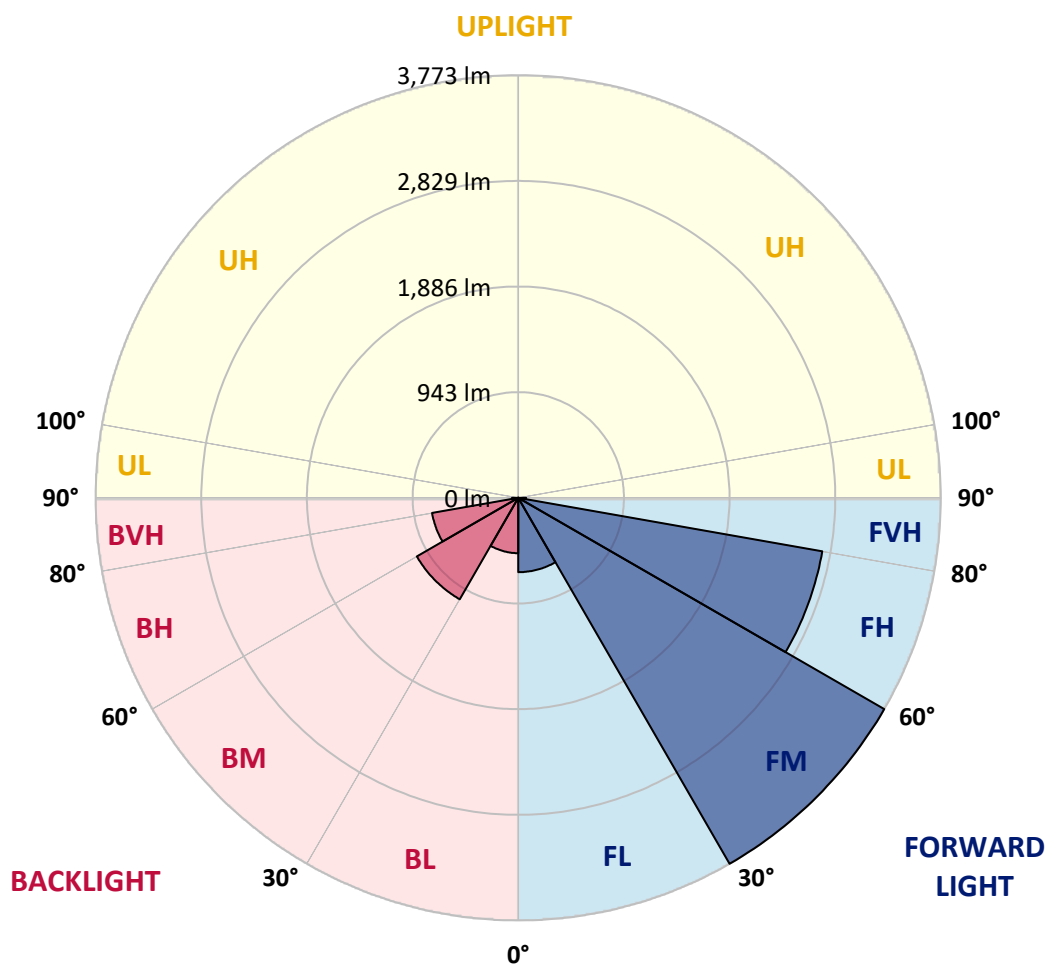
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	663.8	6.9			
FM	(30°-60°)	3772.7	39.1			
FH	(60°-80°)	2755.8	28.6			G2/5000
FVH	(80°-90°)	70.6	0.7			G1/100
BL	(0°-30°)	494.3	5.1	B1/500		
BM	(30°-60°)	1045.5	10.8	B2/2500		
BH	(60°-80°)	781.0	8.1	B2/1000		G2/1000
BVH	(80°-90°)	55.5	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1413.2	1413.2	1413.2	1413.2	1413.2	1413.2	1413.2	1413.2	1413.2	1413.2	1413.2
2.5°	1447.0	1455.2	1452.6	1450.1	1450.1	1446.5	1446.0	1440.8	1436.7	1430.1	1428.5
5°	1465.3	1474.1	1473.0	1475.1	1481.7	1483.3	1484.8	1481.7	1473.5	1465.3	1461.8
7.5°	1449.0	1458.8	1461.8	1474.1	1494.6	1512.9	1526.7	1532.4	1524.7	1512.9	1507.4
10°	1393.8	1404.6	1415.2	1444.4	1480.7	1524.2	1561.1	1583.0	1581.5	1570.2	1560.6
12.5°	1281.8	1293.0	1316.0	1372.8	1439.3	1516.0	1584.5	1630.6	1646.5	1638.3	1621.3
15°	1192.3	1202.0	1219.3	1277.7	1364.1	1480.7	1593.3	1682.7	1723.1	1718.5	1698.1
17.5°	1189.7	1193.8	1204.6	1232.2	1298.7	1425.5	1584.0	1733.9	1811.2	1810.7	1785.0
20°	1234.7	1236.3	1242.4	1248.0	1285.9	1383.5	1560.6	1776.3	1909.9	1909.9	1882.2
22.5°	1297.1	1296.1	1302.3	1297.1	1315.5	1380.0	1545.7	1813.7	2019.9	2028.0	1993.2
25°	1390.7	1385.6	1384.1	1372.3	1375.9	1413.2	1562.1	1856.2	2150.2	2167.2	2123.7
27.5°	1515.5	1507.4	1501.7	1474.6	1465.3	1481.7	1612.2	1907.3	2295.5	2324.7	2269.5
30°	1678.1	1663.4	1655.2	1608.1	1574.8	1577.4	1687.9	1975.3	2447.4	2494.4	2424.4
32.5°	1900.1	1877.1	1855.1	1777.9	1717.1	1697.1	1785.6	2069.5	2612.1	2687.3	2597.2
35°	2148.7	2130.3	2106.8	1987.6	1894.0	1848.0	1917.6	2200.9	2804.9	2924.1	2807.0
37.5°	2388.0	2372.3	2383.5	2222.9	2102.2	2035.1	2090.4	2377.4	3042.8	3218.7	3069.9
40°	2635.7	2623.4	2624.9	2471.5	2330.8	2255.6	2300.1	2598.8	3315.4	3569.0	3386.0
42.5°	2904.6	2895.5	2864.8	2728.8	2570.7	2500.6	2541.5	2854.5	3608.0	3968.1	3732.7
45°	3205.9	3200.4	3171.7	3015.7	2834.6	2755.8	2811.1	3136.9	3902.1	4343.4	4081.0
47.5°	3466.2	3470.9	3467.3	3335.9	3148.2	3032.6	3098.6	3431.5	4175.7	4696.3	4415.1
50°	3591.6	3615.6	3650.9	3610.0	3493.4	3375.7	3388.5	3715.9	4436.5	5027.3	4735.3
52.5°	3526.1	3571.6	3667.8	3733.3	3778.3	3753.8	3719.4	3998.2	4682.1	5326.0	5038.1
55°	3282.2	3346.1	3505.7	3663.8	3893.4	4071.9	4116.9	4311.3	4921.4	5588.9	5324.5
57.5°	2837.7	2941.5	3084.7	3404.4	3791.1	4225.9	4580.3	4745.4	5175.1	5869.8	5624.2
60°	2075.6	2214.7	2392.7	2868.4	3433.0	4143.5	4974.6	5412.4	5535.7	6233.3	6014.5
62.5°	1328.3	1414.2	1577.9	2025.9	2675.0	3721.5	5095.4	6246.1	6146.9	6829.8	6599.6
65°	909.4	964.6	1114.5	1366.1	1729.3	2770.2	4772.1	6871.2	7117.7	7774.9	7600.1
67.5°	660.8	702.7	830.7	1051.1	1126.8	1639.3	3703.1	6842.6	8061.4	8748.8	8476.8
70°	481.9	511.5	618.9	830.7	866.9	911.9	2243.3	5816.6	8040.9	9007.6	8681.9
72.5°	357.0	377.5	449.6	644.4	701.7	615.8	1110.4	4227.4	6909.5	8147.3	7885.9
75°	258.3	273.7	326.9	493.0	561.6	469.0	553.9	2470.5	4819.7	5731.1	5777.1
77.5°	197.4	209.2	244.0	361.1	449.6	351.9	343.7	1136.5	2285.2	2296.5	2425.5
80°	158.6	166.3	185.1	254.2	344.7	263.4	224.1	458.8	722.2	611.2	641.3
82.5°	116.6	129.4	156.5	178.6	246.5	181.5	136.5	231.6	274.7	236.3	238.3
85°	66.5	75.2	94.6	127.9	157.5	111.0	78.2	102.8	127.9	104.9	93.6
87.5°	23.6	30.6	33.2	50.1	68.6	46.0	30.1	29.6	41.9	31.2	26.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1413.2	1413.2	1413.2	1413.2	1413.2	1413.2	1413.2	1413.2	1413.2	1413.2	1413.2
2.5°	1423.4	1420.9	1410.6	1396.9	1382.5	1368.7	1364.1	1354.4	1347.8	1344.2	1348.3
5°	1452.1	1443.9	1419.8	1389.2	1357.0	1322.1	1297.6	1275.1	1258.7	1243.4	1249.6
7.5°	1493.0	1478.7	1437.3	1383.5	1326.2	1268.4	1225.5	1192.8	1170.8	1156.4	1159.5
10°	1540.6	1518.5	1455.2	1374.8	1286.4	1203.6	1152.9	1124.7	1110.9	1103.2	1105.3
12.5°	1595.3	1564.0	1473.5	1354.9	1225.5	1130.9	1096.1	1087.9	1088.4	1089.0	1090.0
15°	1662.9	1619.3	1488.4	1311.4	1146.3	1075.1	1069.0	1082.3	1096.1	1102.7	1102.3
17.5°	1739.0	1677.6	1491.0	1239.8	1068.5	1039.4	1058.7	1087.4	1108.3	1117.6	1119.6
20°	1820.8	1737.0	1472.5	1138.6	1004.5	1010.1	1045.0	1081.8	1104.7	1116.5	1119.6
22.5°	1914.5	1800.4	1428.5	1032.2	952.3	978.5	1019.4	1055.1	1079.2	1091.0	1094.1
25°	2021.4	1871.5	1359.5	942.7	907.3	942.7	983.6	1013.2	1032.7	1043.4	1046.5
27.5°	2140.0	1945.7	1267.4	871.6	868.0	905.8	939.6	962.6	972.8	981.0	984.1
30°	2259.2	2013.2	1155.9	817.8	833.7	869.5	893.6	903.7	906.8	908.4	911.9
32.5°	2388.0	2071.5	1038.8	773.4	800.9	834.2	848.5	853.1	838.9	829.1	832.2
35°	2544.0	2133.8	924.2	738.1	768.7	797.3	802.0	797.9	781.0	761.1	762.1
37.5°	2737.0	2211.6	832.7	713.0	738.6	757.5	751.8	750.8	752.3	728.9	730.4
40°	2973.2	2312.9	765.7	693.5	714.0	718.1	702.2	710.9	718.6	682.9	683.9
42.5°	3235.6	2435.2	723.2	680.3	693.5	683.9	659.3	669.0	668.0	620.9	620.4
45°	3503.1	2568.1	708.4	670.6	674.7	655.2	628.1	630.7	609.2	566.7	568.3
47.5°	3769.0	2710.8	717.6	662.4	651.1	629.1	608.1	596.9	565.2	533.5	533.5
50°	4029.9	2860.7	751.3	646.0	618.9	606.1	590.7	570.8	537.1	509.9	507.9
52.5°	4271.9	3011.6	789.2	618.9	578.5	586.2	576.5	553.4	520.2	492.5	493.0
55°	4501.0	3162.4	804.0	581.6	540.6	568.8	563.1	520.7	480.8	458.3	456.2
57.5°	4750.6	3344.1	787.7	534.0	509.9	548.8	527.4	480.3	457.3	440.3	438.8
60°	5096.4	3628.9	752.3	475.2	480.8	519.2	482.4	462.9	437.8	418.9	417.9
62.5°	5670.7	4160.4	695.6	416.9	446.5	475.2	460.8	441.4	415.8	397.4	397.4
65°	6519.8	4898.9	588.8	371.4	408.2	432.2	437.8	418.4	391.8	372.4	373.4
67.5°	7235.9	5362.3	445.5	333.4	368.8	397.4	413.3	394.3	366.2	347.3	347.8
70°	7196.5	5025.8	340.1	296.1	333.9	363.2	383.7	368.8	338.6	320.7	322.3
72.5°	6391.9	4204.3	275.2	258.3	298.7	327.4	351.9	340.6	310.0	292.5	292.5
75°	4695.8	2984.5	220.0	220.0	254.7	290.0	317.1	310.0	281.9	269.6	266.0
77.5°	1979.4	1252.1	172.4	182.6	211.8	249.1	282.8	285.4	260.9	276.2	250.6
80°	526.3	345.2	131.4	143.7	166.3	205.6	246.0	245.0	218.4	204.1	189.7
82.5°	200.5	136.0	93.6	101.3	120.2	157.5	194.9	201.0	174.5	150.9	150.9
85°	77.2	58.3	57.8	60.9	70.1	104.3	147.3	152.4	131.4	111.5	115.1
87.5°	20.0	17.4	21.5	20.5	32.2	55.8	84.4	87.4	80.3	46.5	66.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)