

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: P961502

Luminaire Tested: **NAV-SB2A-760-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961502
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-760-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9858.5 lumens
Efficiency: N/A
Efficacy: 172.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
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



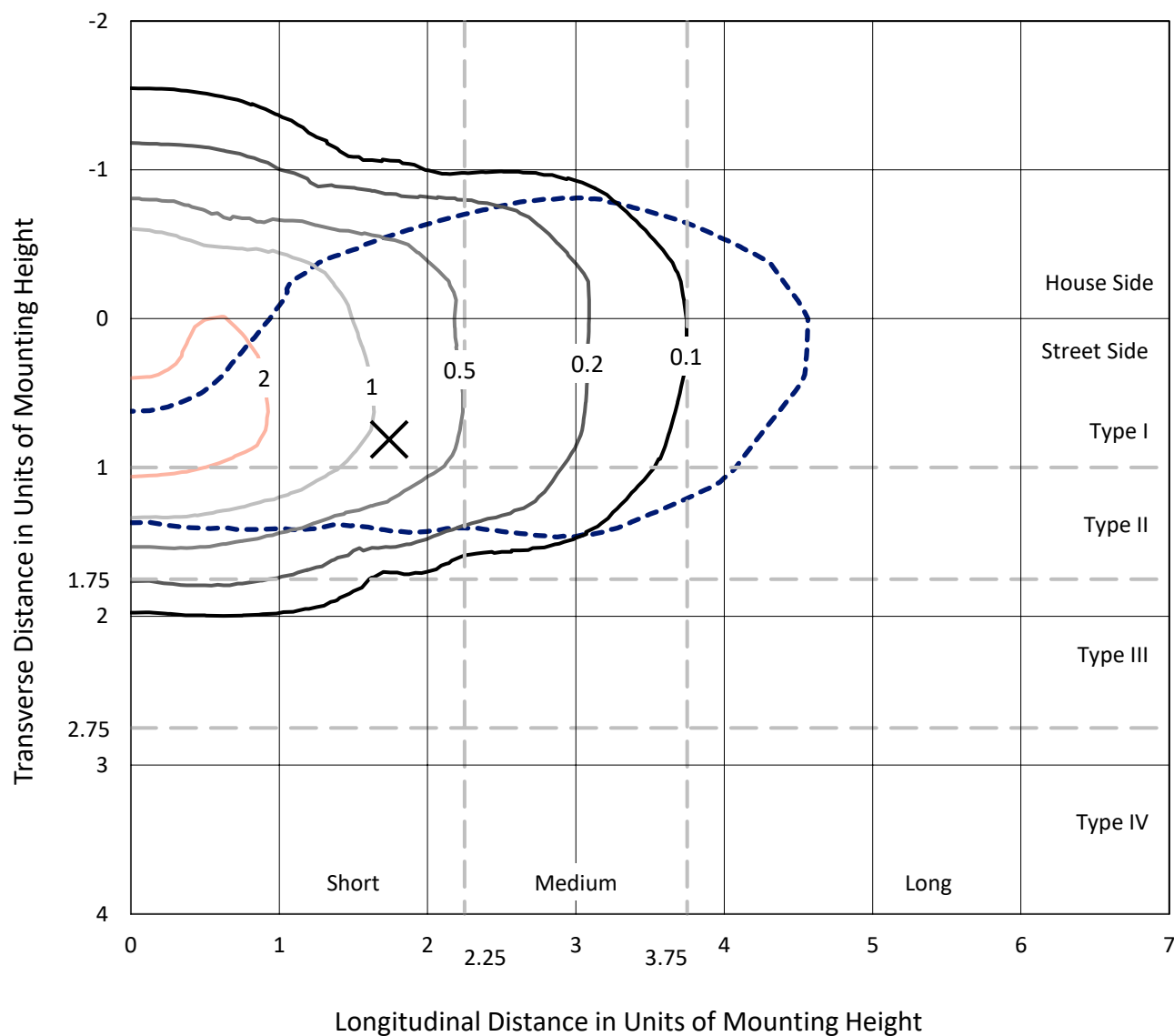
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

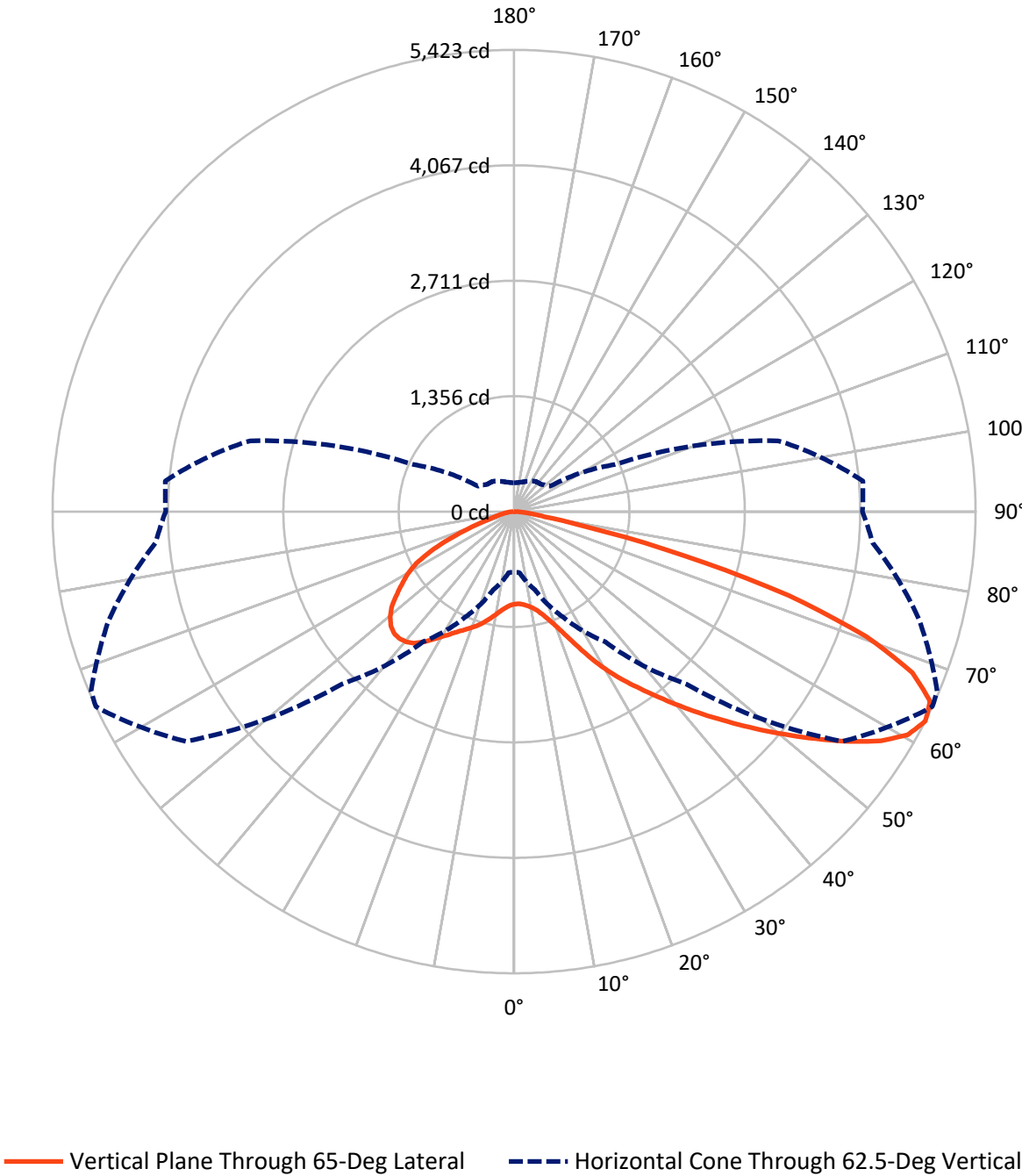


Based on 25 foot mounting height. Maximum calculated value = 2.8 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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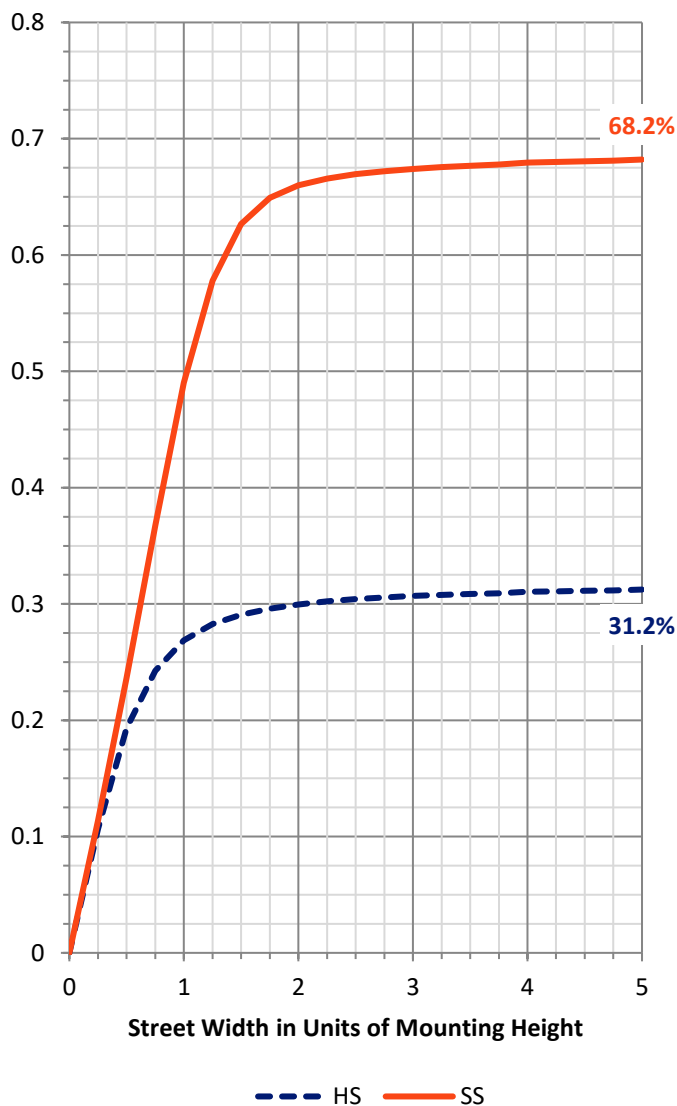
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3110.9	0.0	3110.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	6747.6	0.0	6747.6
	% Fixture	68.4	0.0	68.4
Total	Lumens	9858.5	0.0	9858.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.3	1.1
10°-20°	367.3	3.7
20°-30°	744.7	7.6
30°-40°	1288.7	13.1
40°-50°	1950.2	19.8
50°-60°	2286.5	23.2
60°-70°	1917.0	19.4
70°-80°	1058.3	10.7
80°-90°	137.5	1.4
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°	9858.5	100.0
0°-180°	9858.5	100.0

Coefficient of Utilization



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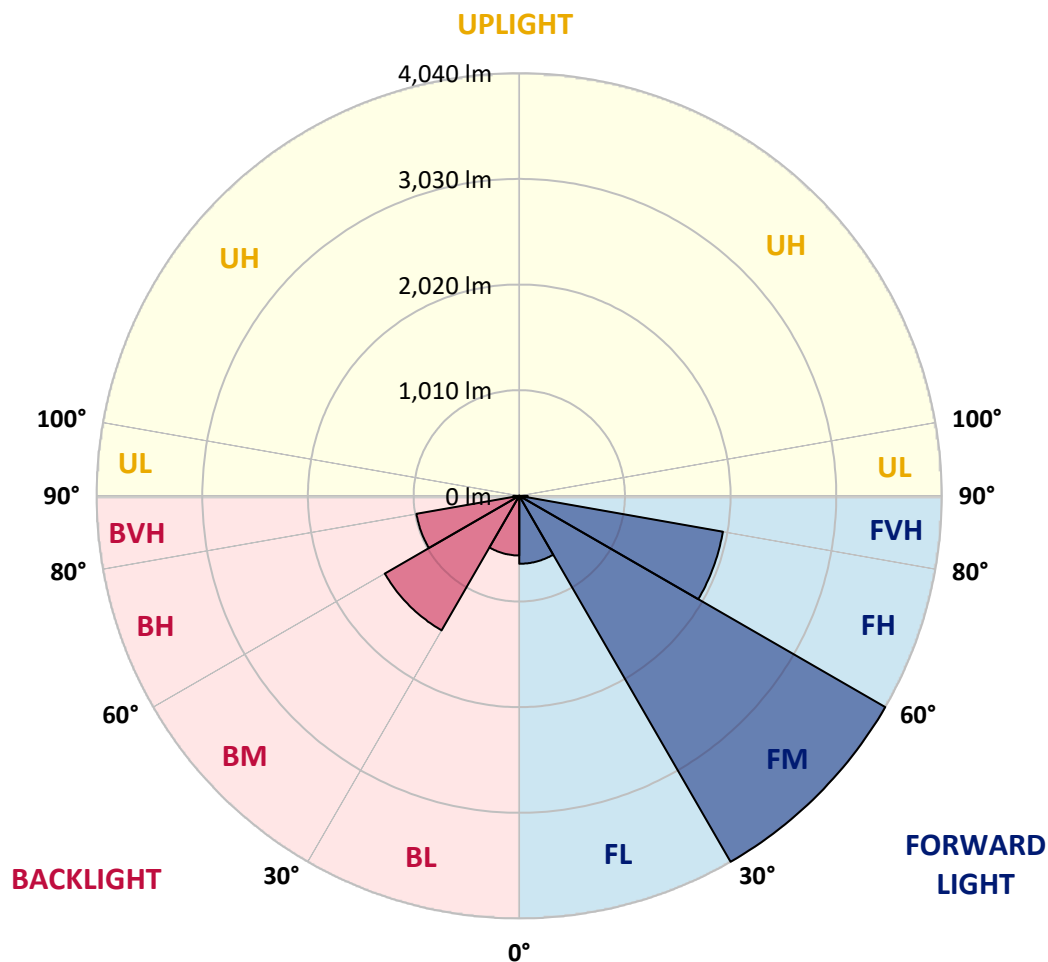
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	649.8	6.6			
FM	(30°-60°)	4040.3	41.0			
FH	(60°-80°)	1977.3	20.1			G2/5000
FVH	(80°-90°)	80.1	0.8			G1/100
BL	(0°-30°)	570.5	5.8	B2/1000		
BM	(30°-60°)	1485.1	15.1	B2/2500		
BH	(60°-80°)	997.9	10.1	B2/1000		G2/1000
BVH	(80°-90°)	57.4	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4
2.5°	1079.2	1076.1	1078.7	1078.7	1079.7	1079.2	1082.8	1083.8	1085.4	1088.4	1088.4
5°	1068.5	1067.9	1072.6	1076.7	1080.8	1084.3	1089.0	1095.5	1096.5	1100.1	1104.7
7.5°	1064.9	1061.8	1069.0	1074.1	1083.8	1092.4	1104.7	1116.0	1120.6	1122.2	1130.9
10°	1092.4	1087.4	1094.0	1097.1	1105.3	1114.0	1128.3	1146.2	1151.3	1157.4	1167.2
12.5°	1139.6	1134.0	1143.6	1148.2	1155.9	1163.6	1173.3	1190.7	1193.3	1204.5	1213.7
15°	1204.0	1197.3	1203.5	1209.1	1221.9	1229.1	1238.8	1255.6	1255.6	1264.3	1271.0
17.5°	1291.5	1282.8	1287.4	1289.4	1297.5	1308.3	1324.7	1339.6	1347.2	1344.2	1335.0
20°	1421.9	1411.1	1411.1	1400.9	1397.8	1406.5	1428.0	1448.4	1456.6	1440.8	1418.3
22.5°	1617.8	1602.4	1593.8	1558.9	1545.2	1546.2	1567.6	1592.7	1599.4	1571.2	1520.6
25°	1866.8	1842.8	1831.1	1779.9	1748.8	1721.6	1738.5	1770.7	1779.9	1745.2	1663.3
27.5°	2115.9	2117.4	2106.3	2044.9	1993.2	1943.6	1934.9	1968.6	1978.4	1939.0	1837.7
30°	2465.2	2428.9	2407.5	2333.8	2260.2	2190.6	2154.9	2168.6	2171.2	2124.1	2006.5
32.5°	2766.6	2757.4	2711.3	2646.9	2552.2	2443.3	2383.4	2361.5	2357.4	2290.4	2150.8
35°	3109.7	3104.6	3056.0	2979.3	2877.0	2725.6	2617.6	2554.8	2549.7	2455.6	2293.4
37.5°	3458.6	3458.6	3411.0	3327.2	3221.3	3032.0	2867.8	2768.1	2751.7	2628.9	2438.7
40°	3736.7	3719.9	3728.6	3693.3	3572.1	3371.1	3145.5	3000.8	2978.8	2831.5	2593.1
42.5°	3894.8	3889.2	3941.3	3980.8	3931.2	3770.6	3451.4	3252.9	3222.3	3054.5	2771.1
45°	3930.2	3924.0	4017.1	4161.3	4230.9	4164.9	3783.9	3518.4	3481.0	3287.7	2961.9
47.5°	3848.8	3836.5	3973.1	4200.7	4423.7	4539.8	4143.9	3806.3	3752.1	3514.8	3157.8
50°	3604.3	3592.5	3799.2	4101.4	4488.7	4794.5	4534.7	4111.7	4028.9	3758.3	3355.7
52.5°	3073.0	3078.5	3402.3	3817.6	4403.2	4953.1	4871.2	4433.4	4333.7	4007.3	3541.4
55°	2393.7	2406.0	2803.9	3261.1	4061.6	4929.0	5100.9	4764.8	4665.6	4241.7	3733.3
57.5°	1713.9	1768.1	2141.0	2593.7	3405.4	4547.9	5151.0	5079.9	4983.8	4497.3	3920.9
60°	1110.9	1120.6	1504.2	1960.4	2593.1	3870.8	5049.3	5318.7	5243.6	4758.2	4078.0
62.5°	712.0	718.6	952.3	1371.2	1866.3	2863.7	4706.5	5422.6	5399.6	4930.6	4228.8
65°	523.3	518.1	639.8	906.3	1257.2	1766.1	4041.1	5372.4	5417.9	5038.5	4353.6
67.5°	436.8	429.7	489.4	627.6	926.3	1003.0	2990.0	5046.7	5213.4	5026.2	4445.2
70°	397.9	391.8	428.1	466.0	722.7	671.6	1507.3	4387.4	4644.2	4886.6	4430.4
72.5°	337.0	326.4	376.0	413.8	562.1	515.1	623.0	3370.1	3683.1	4439.1	4221.7
75°	261.4	254.2	296.6	364.2	422.5	402.0	393.8	2046.4	2388.0	3432.9	3693.3
77.5°	207.2	197.4	236.3	283.8	380.1	303.3	286.9	881.3	1219.9	2191.7	2763.5
80°	156.0	147.3	179.5	224.6	292.0	228.7	185.6	359.6	459.8	1110.4	1389.7
82.5°	111.0	103.3	125.4	164.7	196.4	205.1	114.1	201.5	226.6	428.1	310.5
85°	71.1	66.5	83.8	103.3	124.8	131.9	69.6	105.4	115.6	176.5	129.4
87.5°	38.8	31.7	45.0	48.1	57.8	52.7	33.2	38.3	41.4	64.0	54.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4	1086.4
2.5°	1090.5	1092.0	1097.1	1098.6	1102.2	1106.8	1109.9	1112.9	1112.9	1116.0	1116.0
5°	1105.3	1108.8	1119.6	1125.2	1134.5	1143.6	1149.2	1155.9	1160.0	1162.0	1163.1
7.5°	1134.0	1139.6	1154.9	1164.6	1180.5	1193.3	1201.9	1211.1	1213.2	1218.8	1216.8
10°	1172.8	1179.5	1196.8	1215.2	1234.2	1250.0	1258.2	1264.8	1267.4	1268.4	1265.9
12.5°	1217.3	1227.0	1249.5	1272.0	1292.0	1305.7	1307.8	1306.3	1299.1	1293.0	1293.0
15°	1272.0	1280.7	1305.7	1330.3	1349.7	1352.3	1339.6	1331.4	1322.7	1321.1	1321.1
17.5°	1337.5	1342.1	1365.1	1389.2	1390.7	1382.0	1363.0	1355.4	1347.2	1341.6	1342.1
20°	1413.7	1412.1	1428.5	1438.8	1428.0	1401.4	1372.8	1360.0	1351.8	1345.2	1345.7
22.5°	1504.7	1493.0	1491.0	1488.4	1459.7	1403.9	1365.1	1348.7	1336.0	1326.8	1329.8
25°	1637.2	1592.2	1561.0	1543.6	1479.2	1390.2	1340.6	1304.2	1280.2	1264.3	1270.5
27.5°	1803.0	1727.2	1648.5	1606.0	1479.2	1362.0	1281.2	1222.4	1183.1	1166.7	1174.9
30°	1960.9	1881.7	1765.6	1681.2	1475.6	1316.0	1185.6	1103.7	1057.7	1041.4	1051.0
32.5°	2096.0	2009.5	1889.9	1763.5	1466.9	1241.4	1066.9	976.4	931.9	912.5	922.2
35°	2221.3	2129.2	2014.6	1854.1	1443.9	1131.9	936.5	867.5	817.8	786.7	796.8
37.5°	2349.7	2240.2	2132.8	1935.9	1402.4	1004.0	836.3	777.5	719.1	677.2	688.4
40°	2489.3	2358.4	2259.2	1984.5	1334.4	882.3	758.5	704.8	642.9	598.4	607.1
42.5°	2652.5	2500.1	2399.8	2009.5	1241.4	795.8	707.9	655.2	596.9	560.6	567.7
45°	2822.7	2656.1	2528.2	2009.0	1137.5	755.4	691.5	639.3	574.9	537.0	543.1
47.5°	3001.3	2819.3	2639.2	1976.3	1047.4	761.1	682.3	605.1	533.9	497.1	502.2
50°	3180.3	2997.7	2746.6	1914.9	1009.1	748.8	648.0	557.0	473.1	439.8	441.9
52.5°	3357.8	3187.4	2839.1	1827.5	970.3	703.3	604.0	494.6	448.0	425.1	425.1
55°	3536.2	3375.2	2939.9	1700.2	873.1	650.1	530.4	471.1	428.1	407.1	405.1
57.5°	3715.3	3592.0	3035.5	1572.8	750.8	584.6	489.9	442.4	408.2	390.2	387.1
60°	3901.5	3840.1	3134.2	1455.6	630.2	500.7	460.3	419.4	384.6	364.7	363.2
62.5°	4093.2	4113.2	3211.5	1304.7	519.2	449.6	433.7	391.8	358.0	339.1	338.6
65°	4286.7	4376.6	3262.2	1095.5	421.0	401.0	405.1	361.6	327.4	311.0	310.5
67.5°	4432.4	4566.4	3247.8	829.1	345.2	355.0	369.3	329.9	297.7	284.8	285.4
70°	4448.7	4543.9	3106.7	567.7	288.9	310.0	329.4	298.7	265.5	256.2	256.8
72.5°	4230.9	4237.0	2713.4	370.8	244.5	272.1	287.4	267.0	234.7	225.6	225.1
75°	3659.6	3504.1	1992.2	244.5	204.6	233.7	248.0	233.7	202.5	204.6	197.4
77.5°	2772.6	2481.6	1209.6	173.9	170.9	196.4	215.9	205.6	179.0	201.0	177.0
80°	1428.5	1342.6	539.6	129.9	135.0	157.0	177.5	164.2	141.7	135.0	123.3
82.5°	327.4	380.6	212.8	93.1	97.7	113.1	135.5	123.3	101.8	85.9	84.9
85°	114.6	125.4	94.1	58.3	57.3	70.6	92.0	82.3	69.1	55.2	58.3
87.5°	36.3	47.6	35.3	23.6	24.6	31.7	42.4	38.8	32.2	21.0	22.0
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)