

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: P960386

Luminaire Tested: **NAV-SB1C-740-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960386
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-SB1C-740-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8232.8 lumens
Efficiency: N/A
Efficacy: 151.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 54.4
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



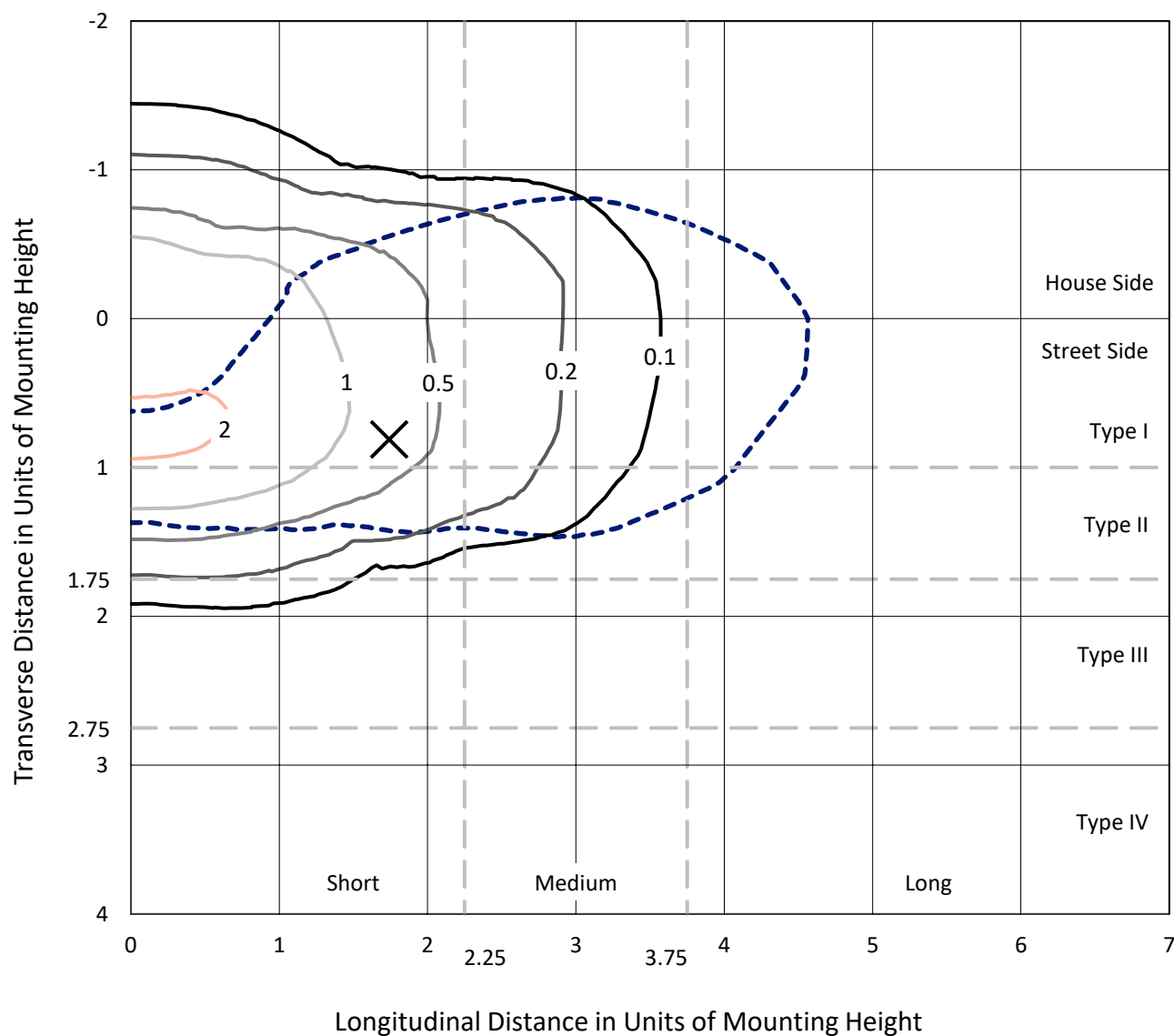
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

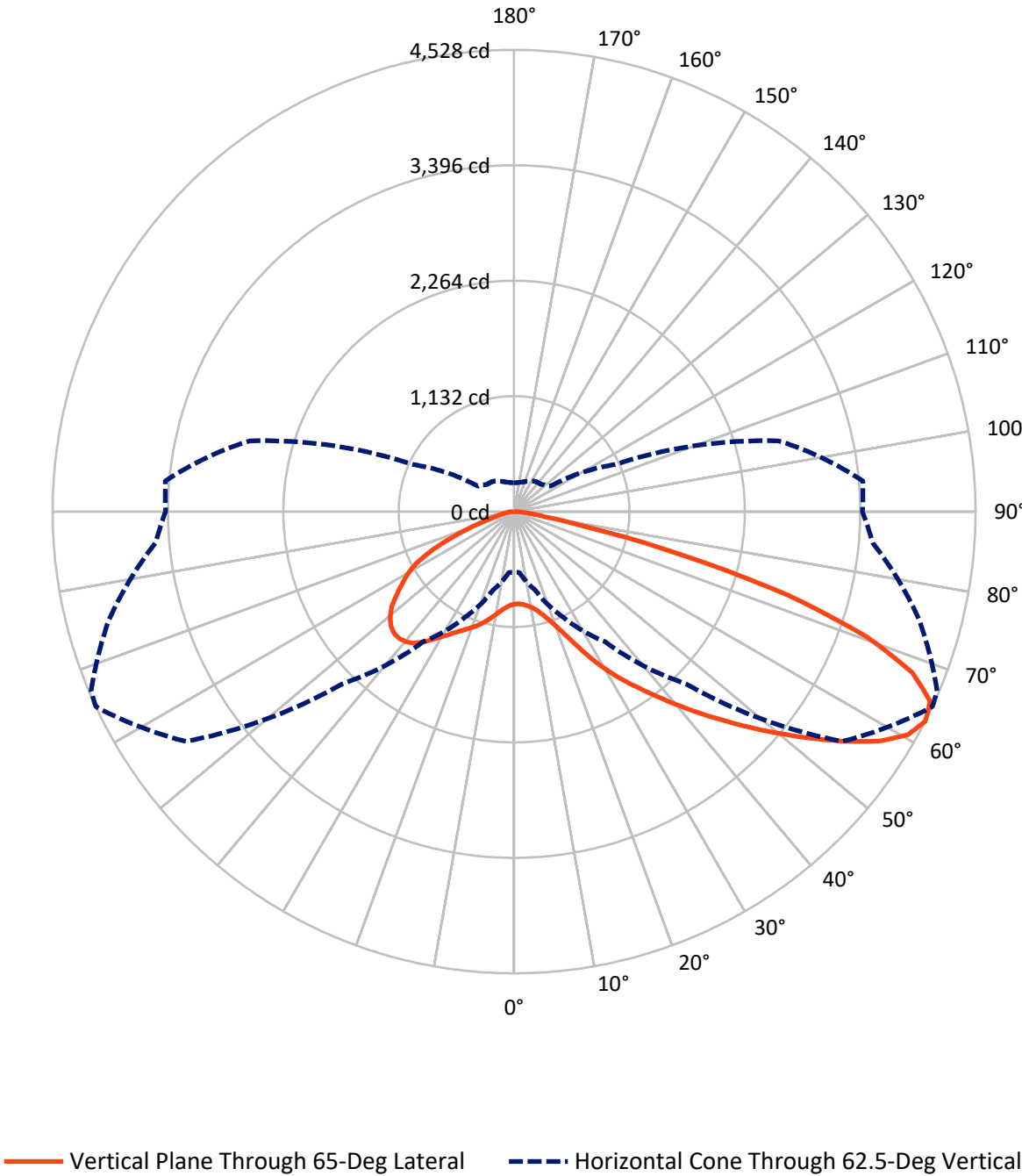


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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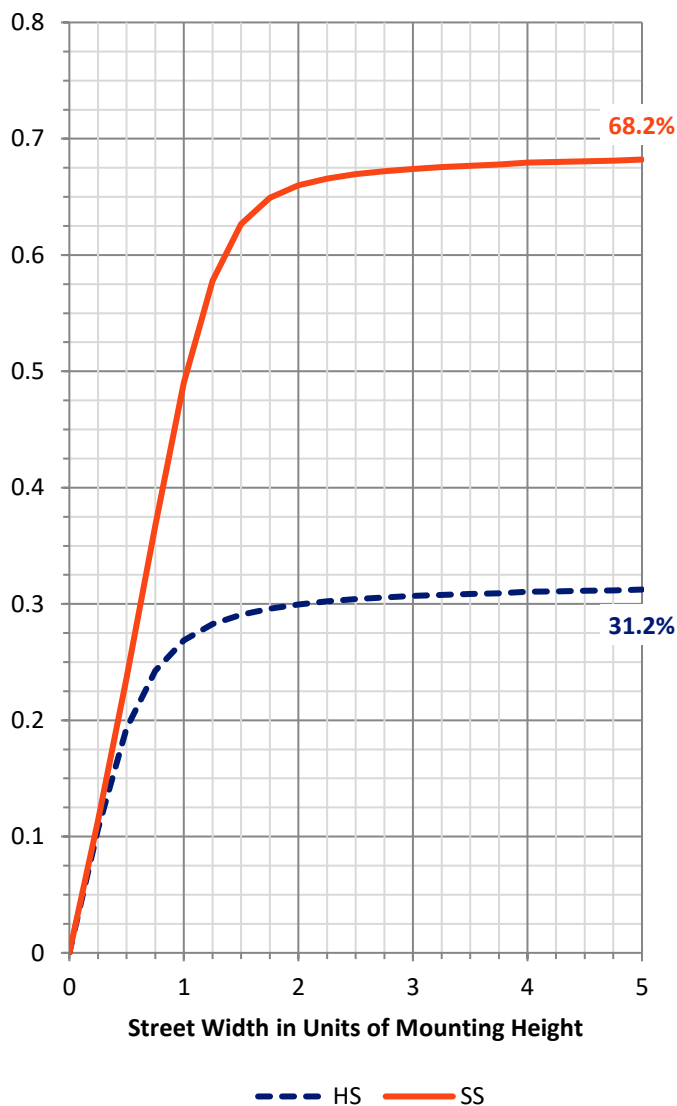
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2597.9	0.0	2597.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	5634.9	0.0	5634.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	8232.8	0.0	8232.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.4	1.1
10°-20°	306.7	3.7
20°-30°	621.9	7.6
30°-40°	1076.2	13.1
40°-50°	1628.6	19.8
50°-60°	1909.4	23.2
60°-70°	1600.8	19.4
70°-80°	883.8	10.7
80°-90°	114.8	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°	8232.8	100.0
0°-180°	8232.8	100.0

Coefficient of Utilization



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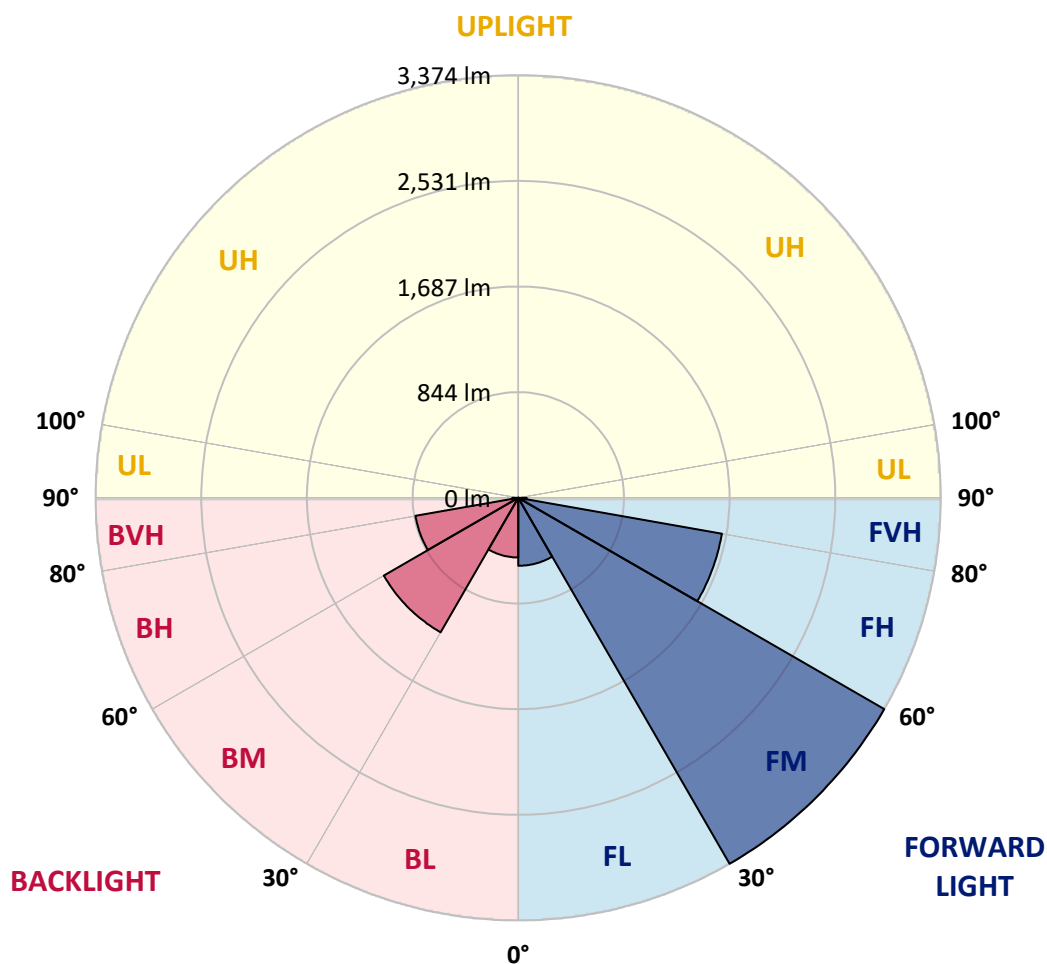
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	542.6	6.6			
FM	(30°-60°)	3374.1	41.0			
FH	(60°-80°)	1651.3	20.1			G1/1800
FVH	(80°-90°)	66.9	0.8			G1/100
BL	(0°-30°)	476.4	5.8	B1/500		
BM	(30°-60°)	1240.2	15.1	B2/2500		
BH	(60°-80°)	833.4	10.1	B2/1000		G2/1000
BVH	(80°-90°)	47.9	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°	907.2	907.2	907.2	907.2	907.2	907.2	907.2	907.2	907.2	907.2	907.2
2.5°	901.3	898.7	900.8	900.8	901.7	901.3	904.3	905.1	906.4	909.0	909.0
5°	892.3	891.9	895.6	899.1	902.5	905.5	909.4	914.9	915.7	918.7	922.6
7.5°	889.3	886.7	892.7	897.0	905.1	912.4	922.6	932.0	935.8	937.2	944.3
10°	912.4	908.0	913.6	916.1	923.0	930.3	942.3	957.1	961.4	966.6	974.7
12.5°	951.6	946.9	955.1	958.9	965.3	971.7	979.8	994.4	996.5	1005.9	1013.6
15°	1005.4	999.9	1005.0	1009.7	1020.4	1026.4	1034.5	1048.6	1048.6	1055.9	1061.4
17.5°	1078.5	1071.2	1075.1	1076.8	1083.6	1092.5	1106.3	1118.7	1125.0	1122.5	1114.8
20°	1187.5	1178.4	1178.4	1169.9	1167.4	1174.6	1192.6	1209.6	1216.5	1203.2	1184.4
22.5°	1351.1	1338.2	1331.0	1301.9	1290.4	1291.2	1309.1	1330.0	1335.7	1312.1	1269.9
25°	1559.0	1538.9	1529.1	1486.5	1460.3	1437.7	1451.8	1478.7	1486.5	1457.3	1389.0
27.5°	1767.0	1768.3	1758.9	1707.6	1664.5	1623.1	1615.8	1644.0	1652.1	1619.2	1534.6
30°	2058.7	2028.5	2010.5	1948.9	1887.4	1829.4	1799.5	1811.0	1813.1	1773.9	1675.7
32.5°	2310.4	2302.7	2264.2	2210.4	2131.4	2040.4	1990.4	1972.0	1968.6	1912.6	1796.1
35°	2596.9	2592.6	2552.0	2488.0	2402.6	2276.1	2186.0	2133.5	2129.2	2050.6	1915.2
37.5°	2888.2	2888.2	2848.5	2778.5	2690.0	2532.1	2394.9	2311.6	2297.9	2195.4	2036.6
40°	3120.6	3106.5	3113.7	3084.3	2983.1	2815.2	2626.9	2505.9	2487.6	2364.6	2165.5
42.5°	3252.5	3247.9	3291.5	3324.4	3282.9	3148.8	2882.3	2716.6	2690.9	2550.8	2314.1
45°	3282.0	3276.9	3354.6	3475.2	3533.2	3478.1	3159.9	2938.2	2907.0	2745.6	2473.5
47.5°	3214.1	3203.8	3317.9	3508.0	3694.2	3791.2	3460.6	3178.7	3133.4	2935.2	2637.1
50°	3010.0	3000.2	3172.7	3425.1	3748.4	4003.9	3786.9	3433.6	3364.5	3138.5	2802.4
52.5°	2566.2	2570.9	2841.3	3188.1	3677.2	4136.3	4067.9	3702.3	3619.1	3346.5	2957.4
55°	1999.0	2009.2	2341.5	2723.3	3391.8	4116.2	4259.7	3979.2	3896.2	3542.2	3117.6
57.5°	1431.3	1476.6	1787.9	2165.9	2843.9	3798.0	4301.6	4242.3	4161.9	3755.7	3274.4
60°	927.7	935.8	1256.1	1637.1	2165.5	3232.5	4216.6	4441.7	4378.9	3973.6	3405.5
62.5°	594.6	600.1	795.3	1145.1	1558.6	2391.5	3930.5	4528.4	4509.2	4117.5	3531.5
65°	437.0	432.7	534.3	756.9	1049.9	1474.9	3374.7	4486.5	4524.6	4207.6	3635.7
67.5°	364.8	358.7	408.8	524.1	773.6	837.6	2497.0	4214.5	4353.7	4197.4	3712.1
70°	332.3	327.2	357.5	389.1	603.5	560.8	1258.7	3663.9	3878.3	4080.7	3699.7
72.5°	281.5	272.5	314.0	345.5	469.4	430.1	520.3	2814.3	3075.7	3707.0	3525.5
75°	218.2	212.3	247.7	304.1	352.8	335.7	328.9	1709.0	1994.2	2866.9	3084.3
77.5°	173.0	164.8	197.3	237.1	317.3	253.3	239.6	735.9	1018.7	1830.2	2307.8
80°	130.3	123.0	150.0	187.5	243.8	191.0	155.1	300.2	384.0	927.3	1160.5
82.5°	92.7	86.3	104.7	137.6	164.0	171.3	95.2	168.3	189.2	357.5	259.2
85°	59.3	55.6	70.0	86.3	104.2	110.2	58.1	87.9	96.6	147.4	108.0
87.5°	32.5	26.4	37.6	40.2	48.3	44.0	27.8	32.1	34.6	53.4	45.7
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°	907.2	907.2	907.2	907.2	907.2	907.2	907.2	907.2	907.2	907.2	907.2
2.5°	910.6	911.9	916.1	917.5	920.4	924.3	926.9	929.5	929.5	932.0	932.0
5°	923.0	926.0	935.0	939.7	947.4	955.1	959.7	965.3	968.7	970.5	971.3
7.5°	946.9	951.6	964.4	972.5	985.8	996.5	1003.8	1011.5	1013.1	1017.8	1016.2
10°	979.4	984.9	999.5	1014.9	1030.6	1043.9	1050.7	1056.3	1058.4	1059.2	1057.2
12.5°	1016.6	1024.7	1043.4	1062.3	1078.9	1090.5	1092.1	1090.9	1084.9	1079.7	1079.7
15°	1062.3	1069.5	1090.5	1111.0	1127.2	1129.3	1118.7	1111.8	1104.5	1103.3	1103.3
17.5°	1116.9	1120.7	1140.0	1160.1	1161.3	1154.0	1138.3	1131.9	1125.0	1120.3	1120.7
20°	1180.6	1179.3	1193.0	1201.5	1192.6	1170.3	1146.4	1135.7	1128.9	1123.3	1123.8
22.5°	1256.6	1246.8	1245.1	1242.9	1219.0	1172.5	1140.0	1126.4	1115.6	1107.9	1110.5
25°	1367.2	1329.6	1303.6	1289.0	1235.2	1160.9	1119.5	1089.2	1069.1	1055.9	1061.0
27.5°	1505.6	1442.4	1376.7	1341.2	1235.2	1137.4	1070.0	1020.8	987.9	974.3	981.1
30°	1637.6	1571.4	1474.5	1403.9	1232.3	1099.0	990.0	921.8	883.3	869.6	877.7
32.5°	1750.4	1678.2	1578.2	1472.7	1225.0	1036.7	891.0	815.4	778.2	762.0	770.1
35°	1855.0	1778.2	1682.4	1548.4	1205.8	945.3	782.1	724.4	683.0	656.9	665.4
37.5°	1962.3	1870.8	1781.1	1616.6	1171.2	838.4	698.3	649.2	600.5	565.5	574.9
40°	2078.8	1969.4	1886.6	1657.2	1114.4	736.8	633.4	588.6	536.9	499.8	507.0
42.5°	2215.1	2087.8	2004.1	1678.2	1036.7	664.6	591.1	547.1	498.5	468.1	474.1
45°	2357.3	2218.1	2111.3	1677.7	950.0	630.9	577.5	533.9	480.1	448.4	453.6
47.5°	2506.4	2354.3	2204.0	1650.5	874.7	635.6	569.8	505.3	445.9	415.1	419.4
50°	2655.9	2503.4	2293.6	1599.2	842.8	625.4	541.2	465.1	395.1	367.4	369.0
52.5°	2804.1	2661.8	2371.0	1526.1	810.3	587.3	504.4	413.1	374.1	355.0	355.0
55°	2953.1	2818.6	2455.1	1419.7	729.1	542.8	442.9	393.4	357.5	340.0	338.2
57.5°	3102.7	2999.8	2535.0	1313.4	627.0	488.2	409.2	369.5	340.8	325.8	323.3
60°	3258.2	3206.9	2617.4	1215.6	526.2	418.2	384.4	350.2	321.2	304.5	303.3
62.5°	3418.3	3435.0	2681.9	1089.6	433.6	375.5	362.2	327.2	299.0	283.2	282.8
65°	3579.7	3654.9	2724.2	914.9	351.6	334.9	338.2	302.0	273.4	259.7	259.2
67.5°	3701.5	3813.4	2712.3	692.4	288.3	296.4	308.4	275.5	248.6	237.9	238.3
70°	3715.1	3794.6	2594.4	474.1	241.3	258.8	275.1	249.5	221.7	214.0	214.4
72.5°	3533.2	3538.3	2265.9	309.7	204.2	227.2	240.1	222.9	196.1	188.4	188.0
75°	3056.1	2926.3	1663.7	204.2	170.9	195.2	207.2	195.2	169.1	170.9	164.8
77.5°	2315.5	2072.4	1010.1	145.2	142.7	164.0	180.3	171.7	149.4	167.9	147.8
80°	1193.0	1121.2	450.6	108.4	112.7	131.1	148.2	137.1	118.3	112.7	102.9
82.5°	273.4	317.8	177.7	77.7	81.6	94.4	113.2	102.9	85.0	71.8	70.9
85°	95.6	104.7	78.6	48.7	47.9	58.9	76.9	68.8	57.7	46.1	48.7
87.5°	30.3	39.8	29.5	19.7	20.5	26.4	35.5	32.5	27.0	17.5	18.3
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)