

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: P961564

Luminaire Tested: **NAV-SB2A-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961564
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-830-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8373.2 lumens
Efficiency: N/A
Efficacy: 146.1 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

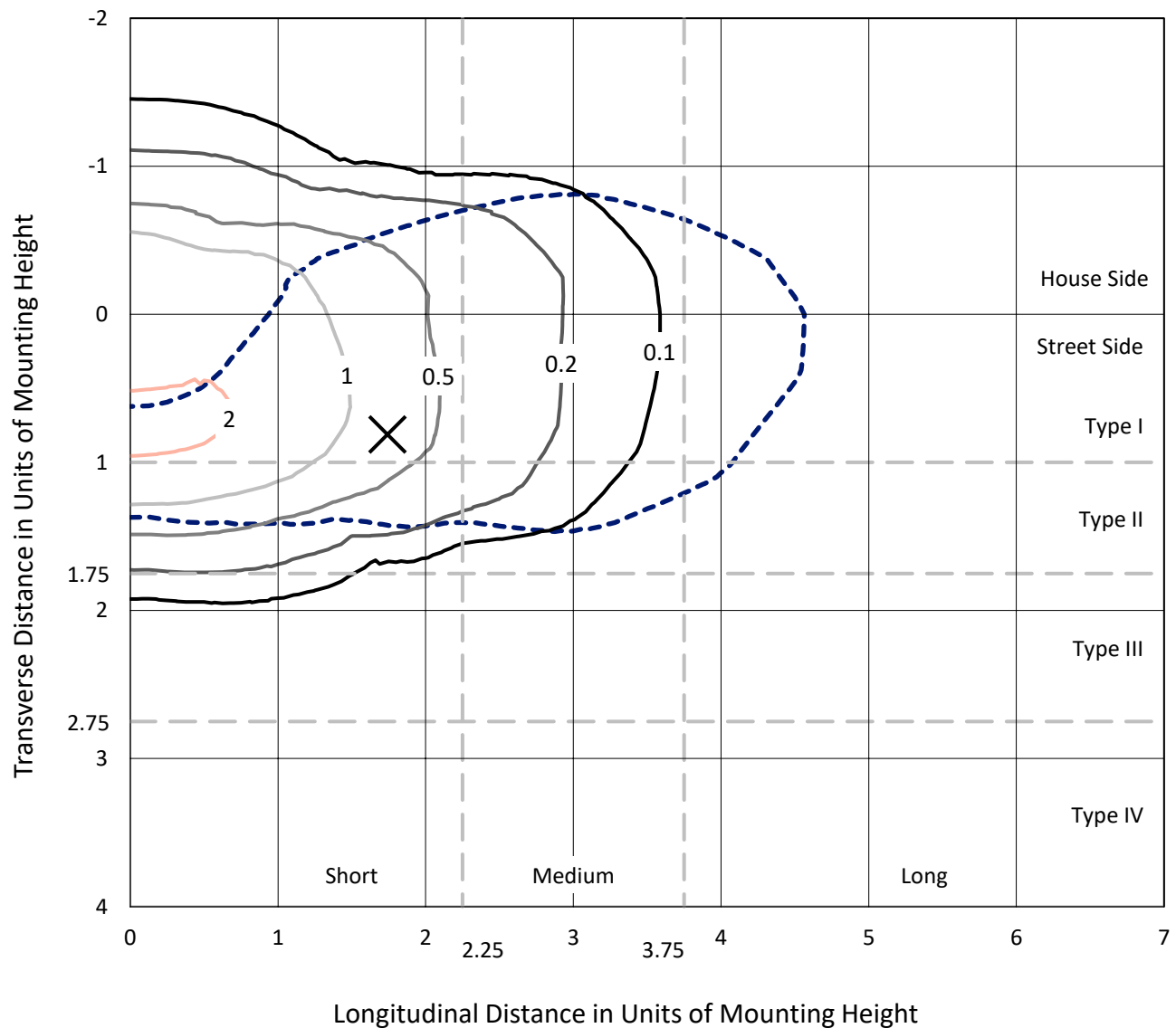


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

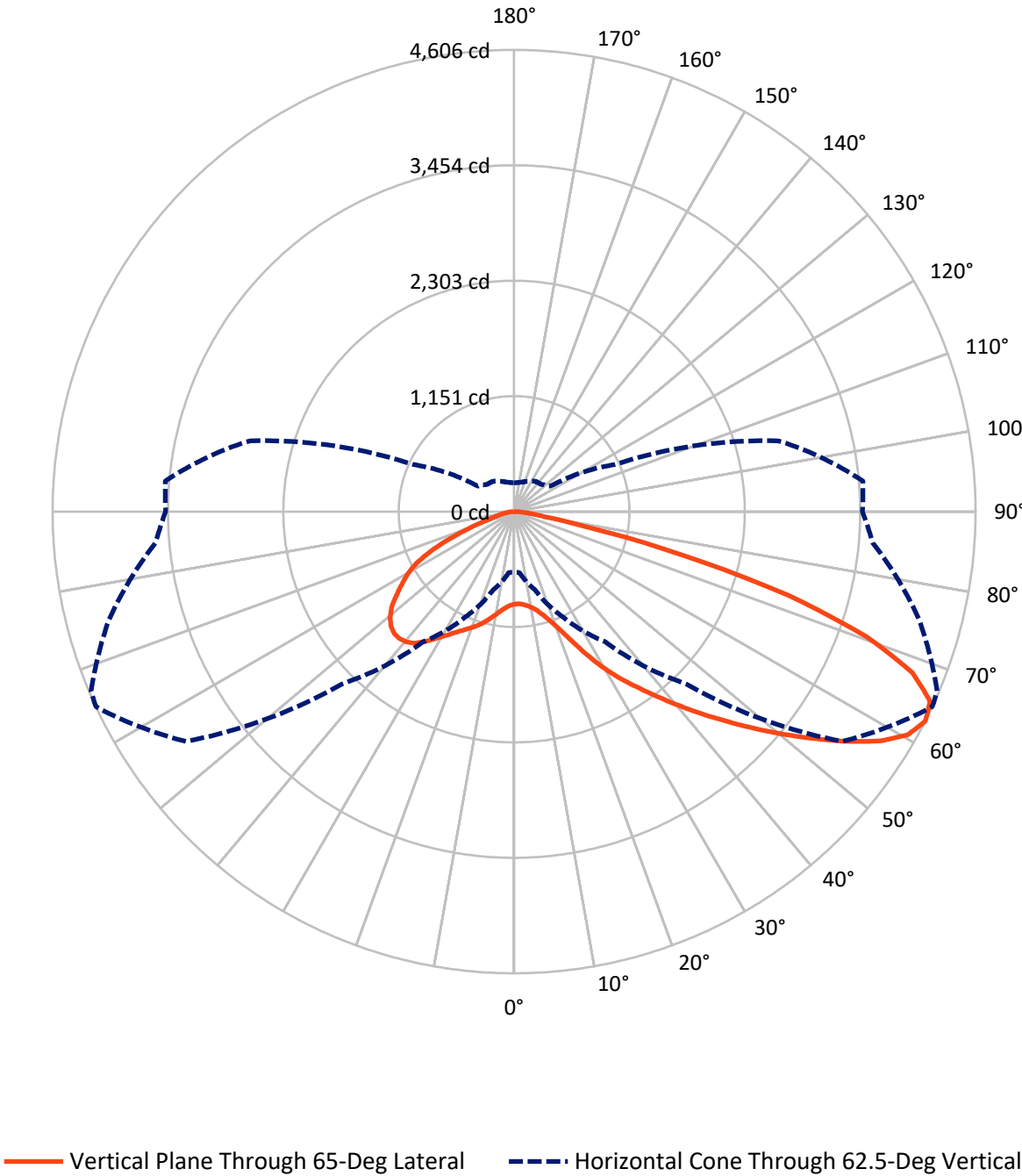


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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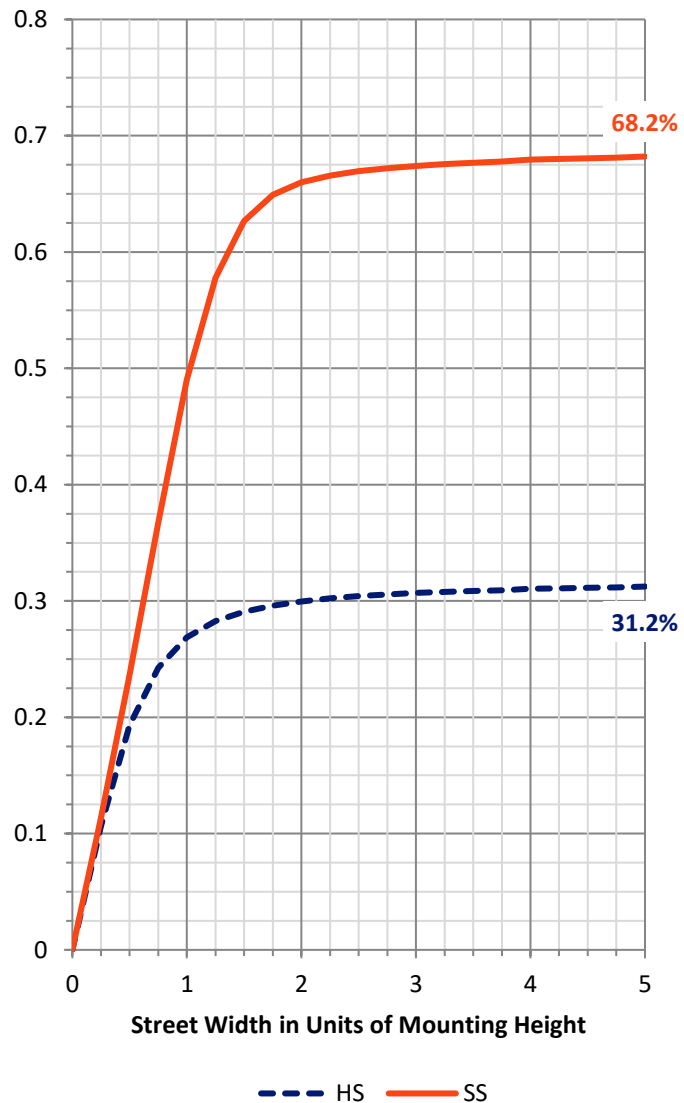
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2642.2	0.0	2642.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	5731.0	0.0	5731.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	8373.2	0.0	8373.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	1.1
10°-20°	312.0	3.7
20°-30°	632.5	7.6
30°-40°	1094.6	13.1
40°-50°	1656.4	19.8
50°-60°	1942.0	23.2
60°-70°	1628.2	19.4
70°-80°	898.9	10.7
80°-90°	116.8	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°	8373.2	100.0
0°-180°	8373.2	100.0

Coefficient of Utilization



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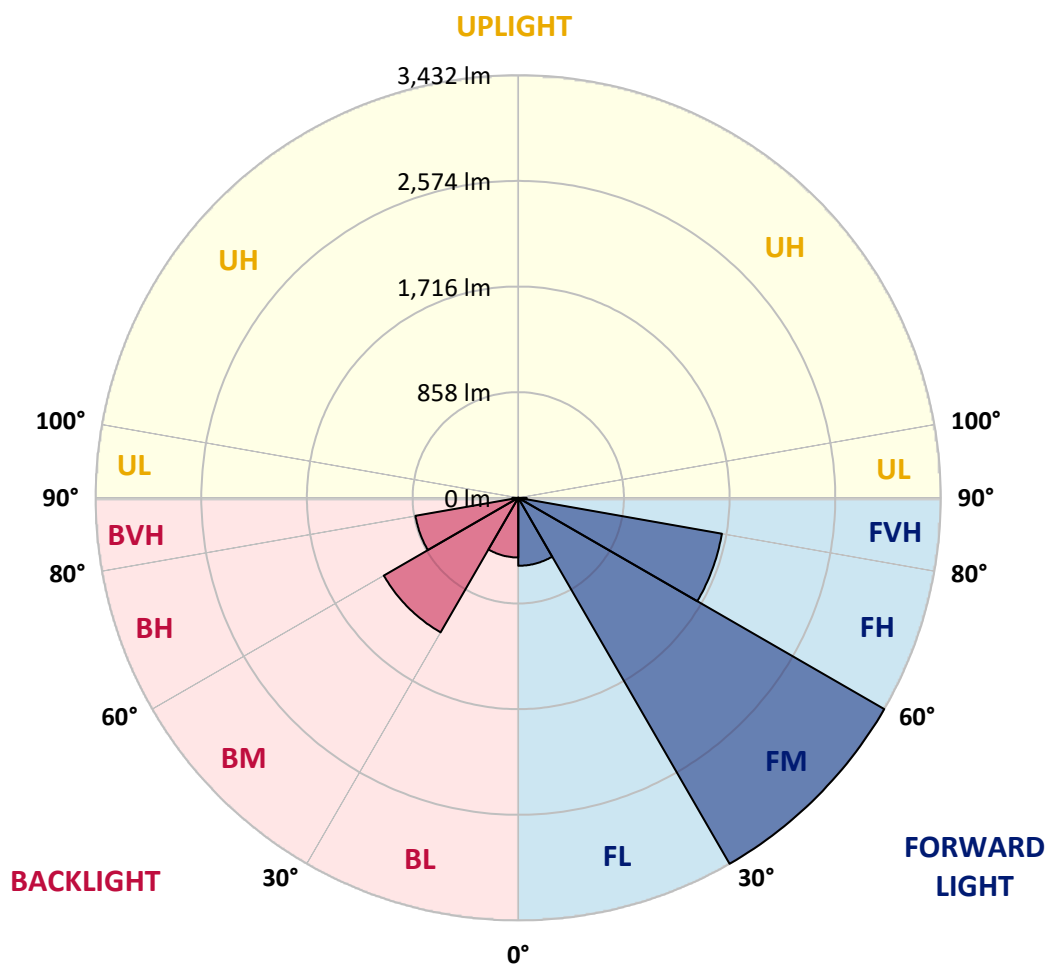
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	551.9	6.6			
FM	(30°-60°)	3431.6	41.0			
FH	(60°-80°)	1679.4	20.1			G1/1800
FVH	(80°-90°)	68.0	0.8			G1/100
BL	(0°-30°)	484.6	5.8	B1/500		
BM	(30°-60°)	1261.4	15.1	B2/2500		
BH	(60°-80°)	847.6	10.1	B2/1000		G2/1000
BVH	(80°-90°)	48.7	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°	922.7	922.7	922.7	922.7	922.7	922.7	922.7	922.7	922.7	922.7	922.7
2.5°	916.7	914.0	916.1	916.1	917.1	916.7	919.6	920.6	921.8	924.4	924.4
5°	907.5	907.0	910.9	914.4	917.9	921.0	924.9	930.5	931.4	934.4	938.3
7.5°	904.5	901.8	907.9	912.2	920.6	927.9	938.3	947.9	951.8	953.1	960.5
10°	927.9	923.5	929.2	931.8	938.8	946.2	958.3	973.5	977.8	983.1	991.4
12.5°	967.9	963.1	971.4	975.3	981.7	988.3	996.5	1011.3	1013.5	1023.1	1030.8
15°	1022.6	1017.0	1022.1	1026.9	1037.8	1043.9	1052.2	1066.5	1066.5	1073.9	1079.5
17.5°	1096.9	1089.5	1093.4	1095.1	1102.1	1111.2	1125.1	1137.8	1144.2	1141.6	1133.9
20°	1207.7	1198.5	1198.5	1189.8	1187.3	1194.6	1212.9	1230.3	1237.2	1223.7	1204.6
22.5°	1374.0	1361.0	1353.6	1324.1	1312.4	1313.2	1331.5	1352.8	1358.4	1334.6	1291.5
25°	1585.6	1565.2	1555.2	1511.8	1485.2	1462.3	1476.6	1504.0	1511.8	1482.3	1412.8
27.5°	1797.1	1798.5	1788.9	1736.8	1692.9	1650.8	1643.4	1672.1	1680.3	1646.9	1560.9
30°	2093.9	2063.0	2044.8	1982.2	1919.6	1860.6	1830.1	1841.9	1844.1	1804.1	1704.2
32.5°	2349.7	2341.9	2302.9	2248.1	2167.7	2075.2	2024.4	2005.7	2002.2	1945.3	1826.8
35°	2641.2	2636.9	2595.6	2530.4	2443.6	2315.0	2223.3	2169.9	2165.5	2085.6	1947.9
37.5°	2937.5	2937.5	2897.1	2825.8	2735.9	2575.2	2435.7	2351.0	2337.1	2232.9	2071.3
40°	3173.8	3159.5	3166.8	3136.9	3033.9	2863.2	2671.7	2548.7	2530.0	2405.0	2202.5
42.5°	3308.1	3303.3	3347.5	3381.1	3338.9	3202.5	2931.4	2762.9	2736.9	2594.3	2353.6
45°	3338.0	3332.8	3411.9	3534.4	3593.4	3537.4	3213.8	2988.3	2956.6	2792.4	2515.7
47.5°	3268.9	3258.6	3374.5	3567.8	3757.2	3855.8	3519.6	3232.8	3186.8	2985.3	2682.0
50°	3061.3	3051.3	3226.8	3483.6	3812.4	4072.2	3851.5	3492.3	3421.9	3192.1	2850.2
52.5°	2610.0	2614.8	2889.7	3242.5	3739.8	4206.8	4137.3	3765.5	3680.8	3403.6	3007.9
55°	2033.1	2043.4	2381.5	2769.9	3449.6	4186.4	4332.4	4047.0	3962.8	3602.6	3170.7
57.5°	1455.7	1501.7	1818.5	2202.9	2892.3	3862.8	4375.0	4314.6	4232.9	3819.8	3330.2
60°	943.5	951.8	1277.6	1665.1	2202.5	3287.7	4288.5	4517.5	4453.6	4041.4	3463.6
62.5°	604.8	610.4	808.8	1164.7	1585.2	2432.3	3997.5	4605.6	4586.1	4187.7	3591.7
65°	444.4	440.0	543.5	769.8	1067.7	1500.0	3432.3	4563.1	4601.7	4279.4	3697.7
67.5°	370.9	364.9	415.7	533.0	786.7	851.9	2539.5	4286.3	4428.0	4269.0	3775.5
70°	337.9	332.7	363.6	395.8	613.9	570.4	1280.2	3726.4	3944.5	4150.4	3762.9
72.5°	286.3	277.2	319.3	351.5	477.4	437.5	529.1	2862.3	3128.2	3770.3	3585.7
75°	222.0	215.9	251.9	309.3	358.9	341.4	334.5	1738.1	2028.3	2915.8	3136.9
77.5°	175.9	167.7	200.7	241.1	322.8	257.6	243.7	748.5	1036.1	1861.5	2347.1
80°	132.5	125.2	152.5	190.8	248.0	194.1	157.6	305.3	390.5	943.1	1180.3
82.5°	94.3	87.7	106.4	139.9	166.8	174.2	96.9	171.2	192.5	363.6	263.7
85°	60.4	56.5	71.2	87.7	106.0	112.0	59.0	89.5	98.2	149.9	109.9
87.5°	33.0	27.0	38.2	40.8	49.1	44.8	28.2	32.6	35.2	54.3	46.4
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°	922.7	922.7	922.7	922.7	922.7	922.7	922.7	922.7	922.7	922.7	922.7
2.5°	926.2	927.5	931.8	933.2	936.1	940.0	942.7	945.3	945.3	947.9	947.9
5°	938.8	941.8	950.9	955.7	963.5	971.4	976.1	981.7	985.2	987.0	987.9
7.5°	963.1	967.9	980.9	989.1	1002.7	1013.5	1020.9	1028.7	1030.4	1035.2	1033.5
10°	996.1	1001.7	1016.5	1032.2	1048.3	1061.7	1068.7	1074.3	1076.5	1077.4	1075.1
12.5°	1033.9	1042.1	1061.3	1080.4	1097.4	1109.0	1110.8	1109.5	1103.4	1098.2	1098.2
15°	1080.4	1087.7	1109.0	1129.9	1146.5	1148.6	1137.8	1130.8	1123.4	1122.1	1122.1
17.5°	1136.0	1139.9	1159.5	1179.9	1181.2	1173.8	1157.7	1151.2	1144.2	1139.5	1139.9
20°	1200.7	1199.5	1213.3	1222.0	1212.9	1190.3	1165.9	1155.1	1148.1	1142.5	1143.0
22.5°	1278.1	1268.0	1266.3	1264.1	1239.8	1192.5	1159.5	1145.5	1134.7	1126.9	1129.4
25°	1390.5	1352.3	1325.8	1311.1	1256.3	1180.7	1138.6	1107.7	1087.3	1073.9	1079.1
27.5°	1531.4	1467.0	1400.1	1364.1	1256.3	1156.8	1088.2	1038.2	1004.8	990.9	997.8
30°	1665.5	1598.2	1499.6	1427.9	1253.3	1117.8	1007.0	937.5	898.4	884.5	892.7
32.5°	1780.2	1706.8	1605.1	1497.8	1245.9	1054.3	906.2	829.3	791.5	775.0	783.2
35°	1886.6	1808.5	1711.1	1574.7	1226.3	961.3	795.4	736.8	694.6	668.1	676.8
37.5°	1995.7	1902.7	1811.5	1644.2	1191.2	852.8	710.2	660.3	610.8	575.1	584.8
40°	2114.3	2003.1	1918.8	1685.5	1133.3	749.4	644.2	598.6	546.0	508.3	515.7
42.5°	2252.8	2123.4	2038.3	1706.8	1054.3	676.0	601.3	556.5	507.0	476.1	482.2
45°	2397.5	2255.9	2147.3	1706.4	966.2	641.6	587.3	543.0	488.3	456.1	461.4
47.5°	2549.2	2394.5	2241.6	1678.5	889.7	646.4	579.5	513.9	453.6	422.3	426.6
50°	2701.2	2546.1	2332.8	1626.5	857.1	636.0	550.4	473.0	401.8	373.6	375.4
52.5°	2852.0	2707.2	2411.4	1552.2	824.1	597.3	513.0	420.0	380.6	361.0	361.0
55°	3003.6	2866.7	2497.0	1444.0	741.6	552.2	450.5	400.1	363.6	345.8	344.1
57.5°	3155.6	3050.9	2578.3	1335.8	637.8	496.5	416.2	375.8	346.7	331.5	328.8
60°	3313.7	3261.5	2662.1	1236.4	535.2	425.3	390.9	356.2	326.7	309.8	308.4
62.5°	3476.6	3493.5	2727.7	1108.2	441.0	381.8	368.4	332.7	304.1	288.0	287.6
65°	3640.8	3717.3	2770.7	930.5	357.5	340.6	344.1	307.1	278.0	264.1	263.7
67.5°	3764.6	3878.4	2758.5	704.2	293.3	301.5	313.6	280.2	252.9	242.0	242.4
70°	3778.6	3859.3	2638.7	482.2	245.5	263.2	279.7	253.7	225.5	217.6	218.1
72.5°	3593.4	3598.7	2304.6	315.0	207.7	231.1	244.2	226.7	199.4	191.6	191.2
75°	3108.2	2976.2	1692.1	207.7	173.7	198.5	210.7	198.5	172.0	173.7	167.7
77.5°	2354.9	2107.8	1027.4	147.7	145.1	166.8	183.4	174.7	152.0	170.8	150.3
80°	1213.3	1140.3	458.3	110.3	114.7	133.4	150.8	139.4	120.3	114.7	104.7
82.5°	278.0	323.2	180.7	79.0	82.9	96.0	115.1	104.7	86.4	73.0	72.2
85°	97.3	106.4	79.9	49.5	48.7	60.0	78.2	69.9	58.6	46.9	49.5
87.5°	30.9	40.4	29.9	20.0	20.8	27.0	36.1	33.0	27.4	17.8	18.7
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)