

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: P960358

Luminaire Tested: **NAV-SB1C-735-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-735-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6392.9 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

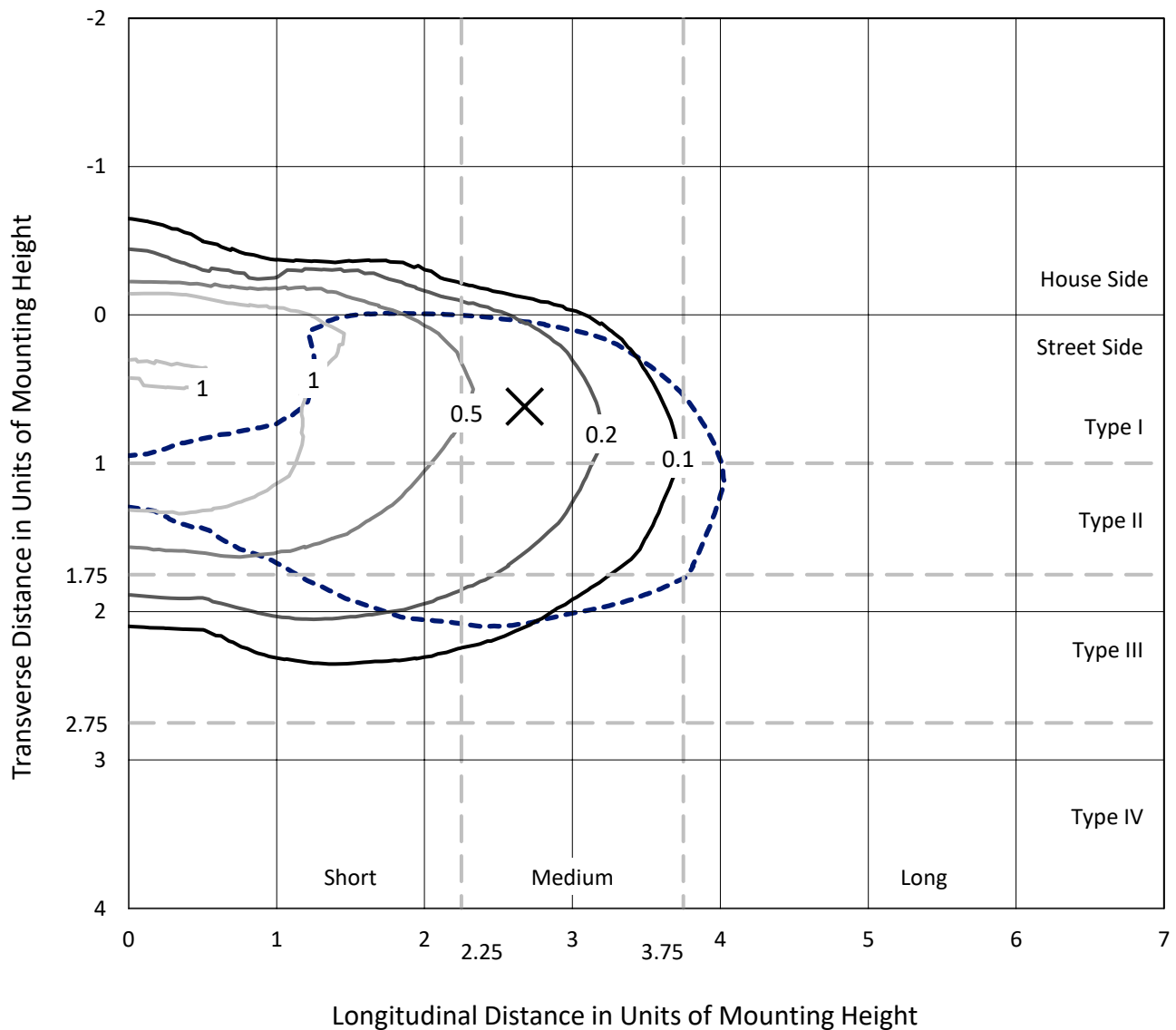
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

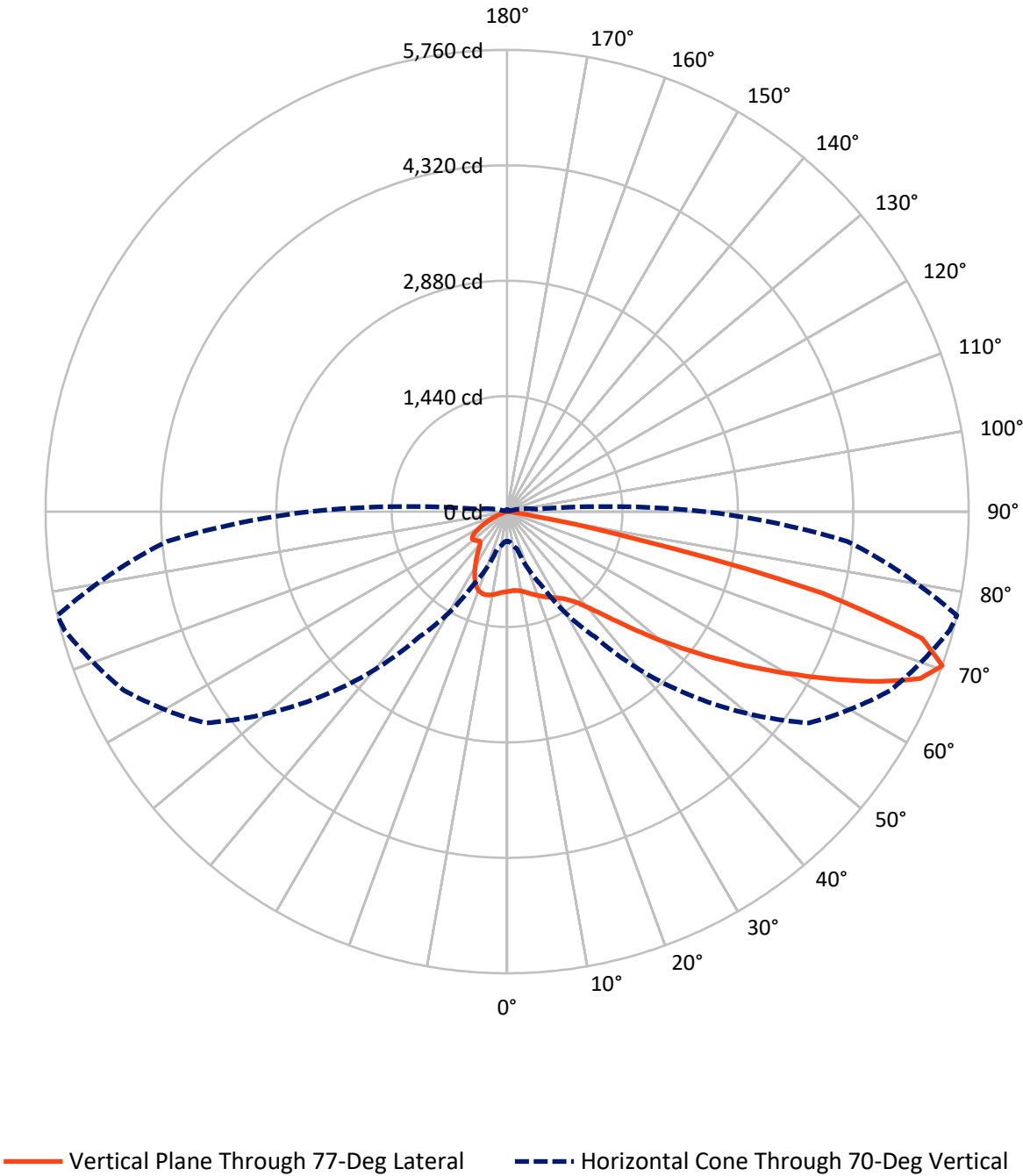
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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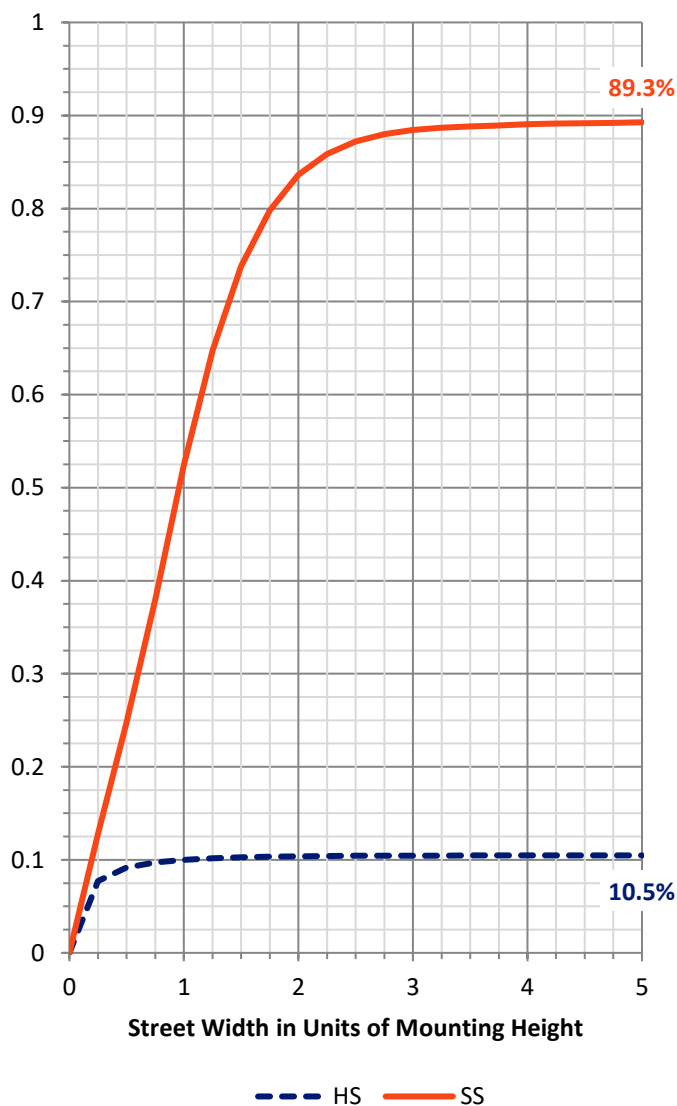
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	673.9	0.0	673.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	5719.0	0.0	5719.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	6392.9	0.0	6392.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	1.3
10°-20°	204.0	3.2
20°-30°	315.6	4.9
30°-40°	572.6	9.0
40°-50°	1080.8	16.9
50°-60°	1561.7	24.4
60°-70°	1662.4	26.0
70°-80°	881.0	13.8
80°-90°	28.9	0.5
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°	6392.9	100.0
0°-180°	6392.9	100.0

Coefficient of Utilization



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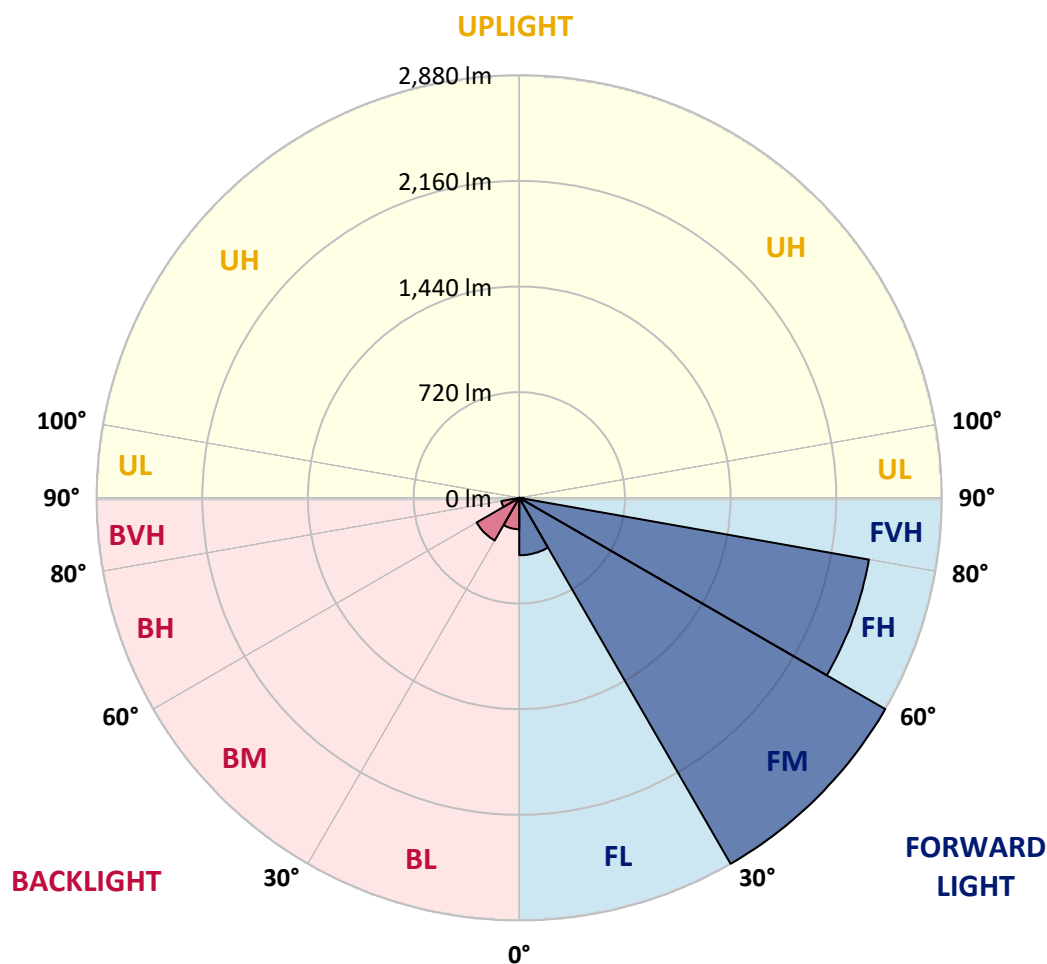
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	391.4	6.1			
FM	(30°-60°)	2879.7	45.0			
FH	(60°-80°)	2419.8	37.9			G2/5000
FVH	(80°-90°)	28.1	0.4			G1/100
BL	(0°-30°)	214.1	3.3	B1/500		
BM	(30°-60°)	335.5	5.2	B1/1000		
BH	(60°-80°)	123.5	1.9	B1/500		G1/500
BVH	(80°-90°)	0.8	0.0			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	997.2	997.2	997.2	997.2	997.2	997.2	997.2	997.2	997.2	997.2	997.2
2.5°	936.2	944.7	943.5	949.1	951.2	959.2	967.3	978.2	990.4	989.9	997.9
5°	883.3	891.9	893.8	901.5	911.2	923.7	940.2	962.1	984.6	988.3	1004.4
7.5°	820.7	829.6	834.9	850.2	868.0	893.8	920.9	952.7	990.4	995.6	1026.6
10°	758.2	766.3	773.2	794.9	823.2	861.5	905.6	951.6	1002.0	1009.7	1053.7
12.5°	719.4	727.1	734.7	753.8	788.8	835.7	895.4	957.2	1021.4	1032.3	1090.4
15°	705.7	712.6	718.6	735.5	768.2	821.5	893.4	968.9	1046.0	1060.6	1134.9
17.5°	707.8	711.3	715.3	728.3	760.2	815.1	897.1	989.1	1075.1	1088.0	1179.3
20°	719.4	721.4	721.8	730.7	759.0	814.3	904.4	1008.5	1102.6	1119.9	1223.2
22.5°	734.3	735.1	734.3	740.5	766.7	820.3	914.0	1031.9	1133.2	1149.3	1267.7
25°	804.2	788.8	769.5	757.8	779.6	832.1	928.5	1063.4	1166.8	1182.4	1310.9
27.5°	1021.0	977.0	907.5	829.6	806.3	849.0	948.7	1095.3	1200.7	1214.8	1357.3
30°	1373.1	1315.3	1197.4	1021.8	891.9	884.6	975.0	1127.2	1236.6	1251.9	1406.9
32.5°	1725.9	1711.7	1575.7	1332.7	1084.3	963.7	1018.5	1170.3	1284.2	1296.3	1473.9
35°	2082.8	2054.1	1942.7	1702.5	1381.1	1124.7	1091.2	1226.9	1346.8	1360.5	1571.6
37.5°	2356.1	2338.7	2269.7	2071.8	1733.2	1373.4	1215.5	1314.5	1437.7	1452.9	1696.8
40°	2597.6	2589.5	2566.0	2435.6	2126.8	1698.8	1409.0	1450.2	1563.6	1581.8	1850.2
42.5°	2787.3	2806.2	2819.6	2783.2	2532.5	2070.3	1669.0	1640.7	1739.2	1757.8	2045.6
45°	2981.4	2987.9	3041.6	3094.1	2935.4	2458.7	1962.1	1864.0	1957.6	1980.6	2279.8
47.5°	3106.2	3132.0	3226.5	3319.0	3274.2	2843.8	2276.9	2127.6	2210.7	2254.0	2542.2
50°	3115.5	3164.4	3294.4	3455.4	3520.8	3210.4	2619.3	2427.9	2516.4	2564.0	2822.3
52.5°	2960.8	3036.8	3238.2	3474.0	3654.0	3520.8	2973.4	2728.3	2841.8	2903.9	3113.0
55°	2270.1	2369.4	3027.0	3373.1	3659.2	3756.2	3318.1	3041.2	3204.3	3274.6	3427.2
57.5°	1977.8	2027.9	2379.9	3197.8	3562.0	3851.0	3629.8	3339.1	3598.8	3685.9	3723.9
60°	1645.5	1711.3	1996.0	2911.2	3430.0	3860.4	3905.1	3723.5	4026.3	4124.4	3996.0
62.5°	1118.3	1189.7	1472.7	2418.7	3249.6	3855.9	4130.9	4119.2	4501.5	4606.9	4226.5
65°	692.8	737.6	924.1	1975.0	2997.2	3860.8	4367.0	4599.6	5002.8	5109.8	4404.9
67.5°	547.5	568.1	665.3	1516.4	2562.4	3751.7	4602.8	5051.3	5474.8	5559.6	4459.5
70°	367.8	380.3	484.1	1016.6	1906.4	3248.7	4598.4	5278.2	5717.9	5760.2	4260.8
72.5°	193.8	203.5	283.0	470.8	1151.4	2309.2	3876.0	5006.9	5476.1	5412.2	3641.9
75°	96.9	113.1	190.5	239.0	491.7	1287.8	2407.0	3947.6	4310.1	4063.0	2336.7
77.5°	73.5	88.9	157.4	157.4	171.2	433.6	1019.4	2153.0	1985.8	1653.6	685.9
80°	46.8	60.6	137.7	119.1	71.4	110.2	265.7	603.1	421.9	320.9	124.7
82.5°	27.5	39.6	114.7	78.7	40.0	40.8	75.1	128.4	109.4	85.2	38.3
85°	10.9	25.8	78.7	31.1	15.8	10.0	22.7	27.5	22.7	16.9	9.7
87.5°	0.0	6.0	13.7	0.0	1.2	0.8	1.6	2.0	2.0	1.6	3.3
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°	997.2	997.2	997.2	997.2	997.2	997.2	997.2	997.2	997.2	997.2	997.2
2.5°	1001.6	1002.4	1004.8	1005.2	999.6	992.3	989.5	988.3	983.5	983.1	983.9
5°	1013.7	1017.4	1013.7	1003.3	978.2	943.1	916.5	894.6	874.8	868.8	865.2
7.5°	1037.9	1041.6	1030.7	989.5	926.5	856.7	793.7	749.3	709.3	694.4	688.3
10°	1072.7	1077.5	1043.2	960.0	848.6	736.4	629.8	554.7	496.2	472.3	462.3
12.5°	1116.3	1118.3	1050.1	915.2	747.3	587.0	436.0	355.7	303.6	284.2	278.2
15°	1164.3	1161.5	1050.8	854.2	609.3	415.0	284.6	233.8	212.8	206.3	206.3
17.5°	1214.8	1203.0	1034.7	766.3	457.8	283.8	211.2	199.1	195.4	193.8	193.4
20°	1264.4	1238.2	1005.2	651.2	328.6	212.0	191.8	188.1	186.1	185.3	184.5
22.5°	1309.6	1264.8	954.8	517.5	238.6	187.4	181.2	178.0	174.5	172.8	172.4
25°	1353.6	1280.2	883.8	392.8	191.0	175.2	170.4	164.3	159.5	157.4	156.6
27.5°	1396.5	1289.9	794.9	290.7	170.4	163.9	155.0	146.6	142.9	142.1	141.3
30°	1442.1	1293.1	694.0	216.8	157.8	149.8	136.8	127.2	125.2	125.6	125.6
32.5°	1497.8	1298.0	592.2	177.6	147.4	132.8	117.5	107.4	105.8	107.4	107.0
35°	1564.4	1307.6	494.2	163.5	138.1	115.4	98.9	90.4	88.9	90.0	89.6
37.5°	1654.9	1323.4	402.5	160.7	130.4	101.0	83.1	76.3	76.3	76.7	76.3
40°	1775.1	1365.4	320.5	158.7	126.4	90.0	70.2	67.4	68.7	69.4	69.4
42.5°	1921.7	1454.6	265.3	156.2	121.9	85.2	63.8	62.5	64.6	65.4	65.4
45°	2086.0	1567.6	245.9	152.2	117.9	88.5	61.0	59.3	61.8	62.2	62.5
47.5°	2255.9	1678.2	243.4	147.8	113.9	93.3	60.2	56.5	59.3	59.8	60.2
50°	2427.9	1750.5	245.9	140.9	107.4	93.3	60.6	53.7	56.1	57.3	57.7
52.5°	2601.1	1783.6	244.3	126.0	96.0	87.6	60.6	51.2	53.7	54.5	54.5
55°	2769.1	1777.1	219.7	103.7	81.6	77.5	58.9	49.3	50.8	51.2	51.2
57.5°	2901.9	1687.2	174.0	80.8	66.2	64.6	53.7	46.8	48.1	47.7	47.7
60°	2971.4	1489.3	124.3	62.2	52.1	50.8	47.3	43.6	44.4	42.4	42.0
62.5°	2972.2	1227.7	83.1	49.3	41.6	40.4	40.4	39.2	38.3	34.3	33.1
65°	2908.7	937.5	55.4	39.2	33.5	31.5	33.9	33.5	30.6	25.0	24.2
67.5°	2765.0	614.5	42.0	30.6	25.8	24.6	27.1	28.3	26.2	21.0	20.6
70°	2469.5	357.7	34.7	23.8	19.4	18.1	21.8	24.2	21.8	16.9	16.2
72.5°	2051.3	193.0	28.3	17.7	13.3	12.1	17.3	19.8	17.3	12.5	12.1
75°	1331.1	103.3	21.8	11.7	6.9	7.7	12.9	14.6	12.1	8.1	7.3
77.5°	446.9	45.6	13.7	5.6	3.3	3.3	7.7	8.9	5.6	2.9	2.5
80°	99.7	19.0	5.6	2.5	1.2	1.2	1.6	1.6	0.8	0.0	0.0
82.5°	32.7	7.7	2.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.5	2.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

(END OF REPORT)