

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: P961938

Luminaire Tested: **NAV-SB2B-735-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-735-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9052.8 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 73.9
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



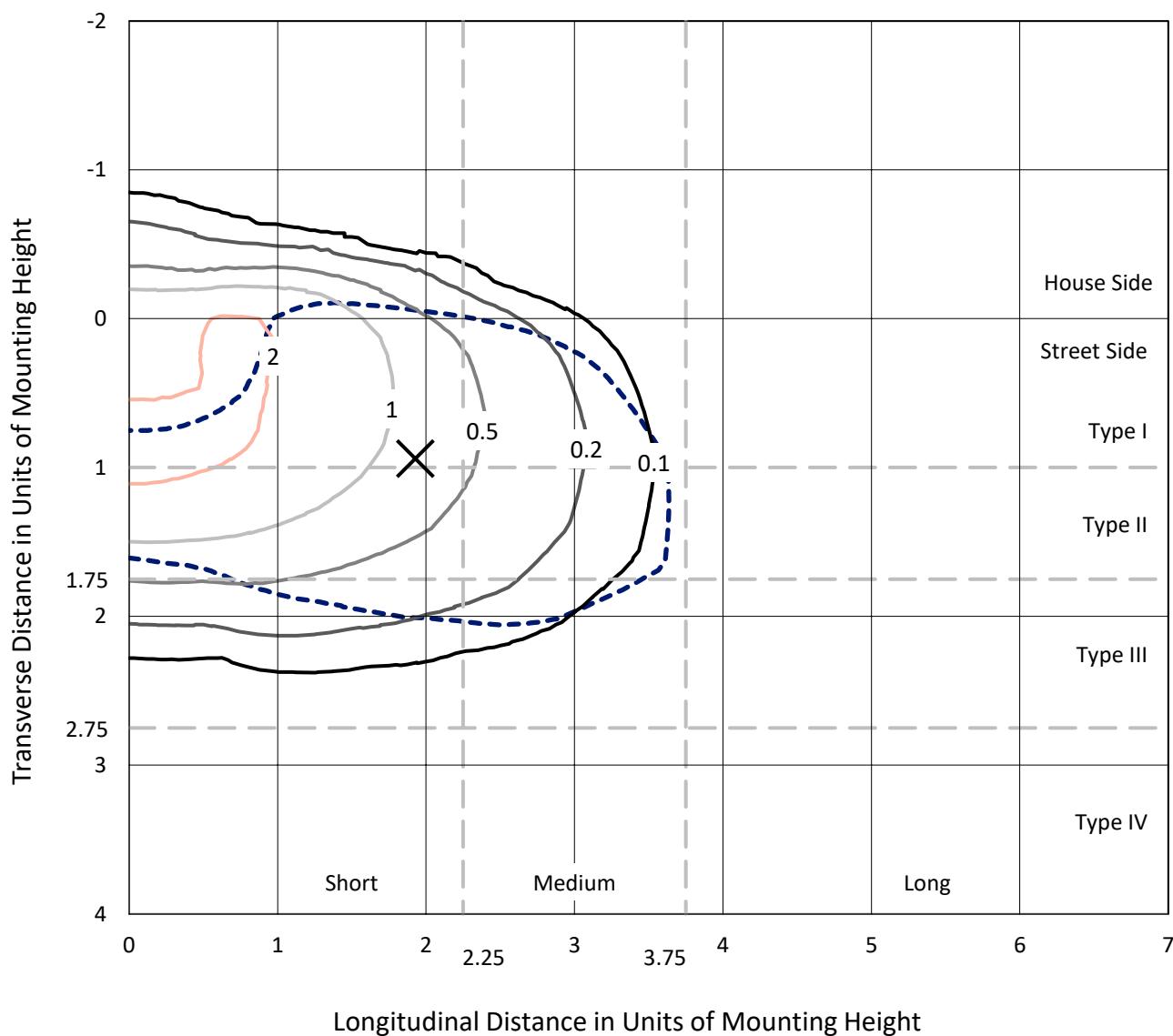
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



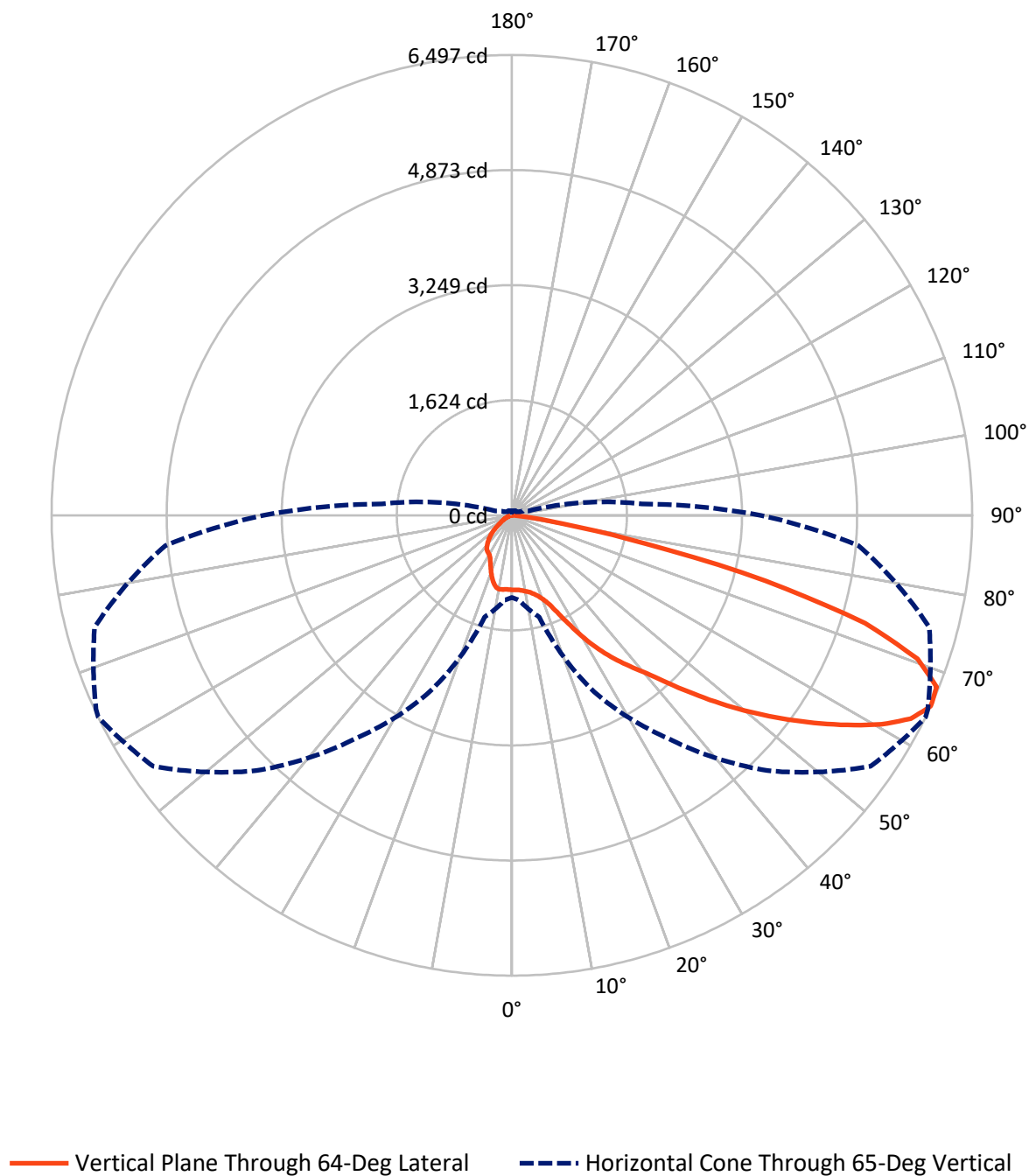
Based on 25 foot mounting height. Maximum calculated value = 2.6 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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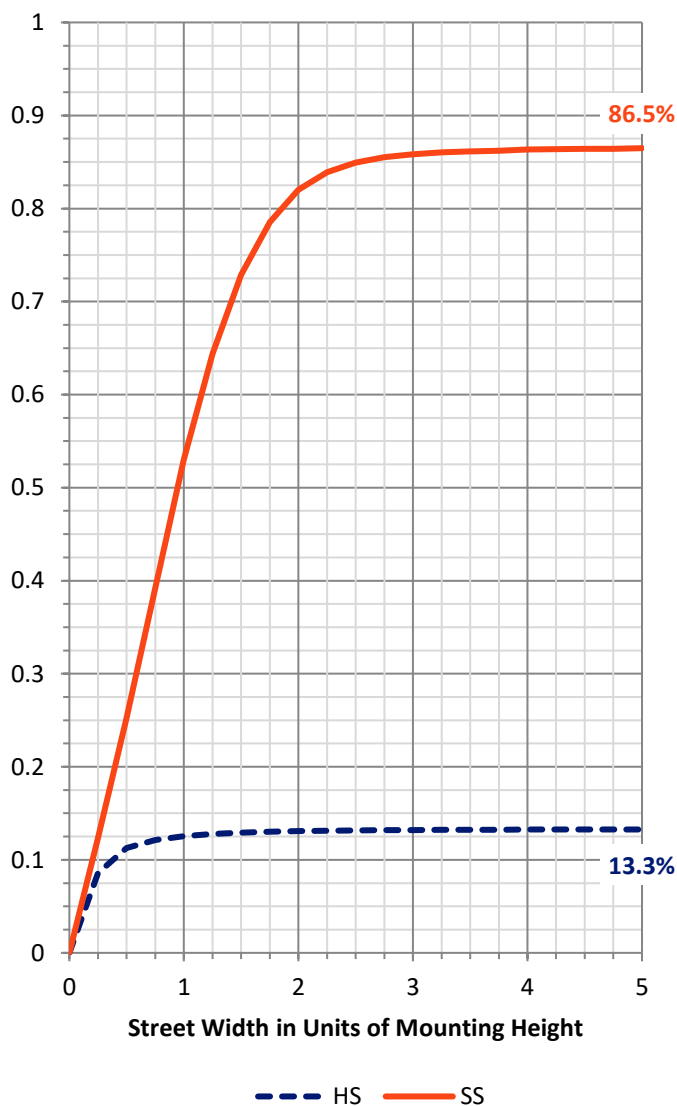
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1210.6	0.0	1210.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	7842.2	0.0	7842.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	9052.8	0.0	9052.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.1	1.1
10°-20°	263.5	2.9
20°-30°	499.3	5.5
30°-40°	1010.3	11.2
40°-50°	1721.0	19.0
50°-60°	2340.5	25.9
60°-70°	2197.8	24.3
70°-80°	880.5	9.7
80°-90°	42.7	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°	9052.8	100.0
0°-180°	9052.8	100.0

Coefficient of Utilization



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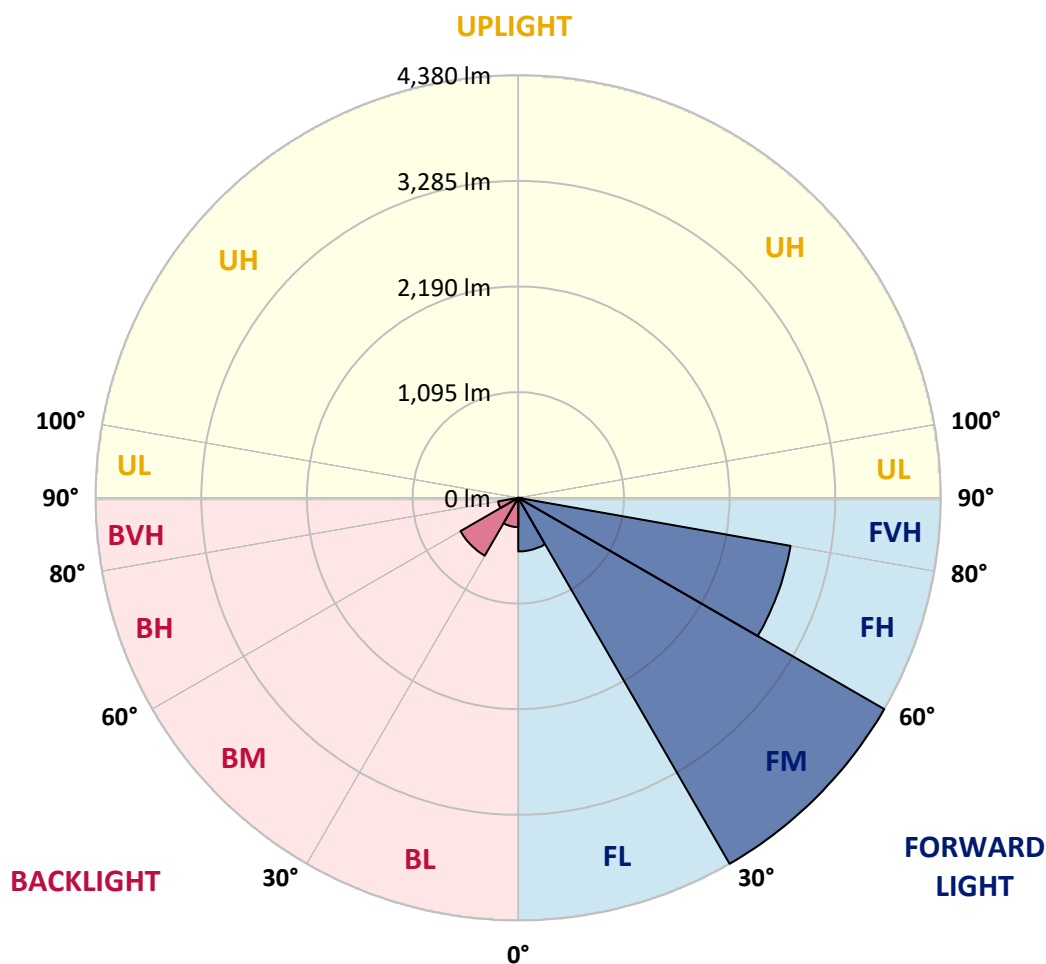
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	555.9	6.1			
FM	(30°-60°)	4379.7	48.4			
FH	(60°-80°)	2865.9	31.7			G2/5000
FVH	(80°-90°)	40.6	0.4			G1/100
BL	(0°-30°)	304.0	3.4	B1/500		
BM	(30°-60°)	692.1	7.6	B1/1000		
BH	(60°-80°)	212.5	2.3	B1/500		G1/500
BVH	(80°-90°)	2.1	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0
2.5°	1049.3	1056.6	1054.7	1053.0	1052.4	1053.5	1054.1	1053.5	1053.5	1053.5	1054.1
5°	1029.3	1035.4	1035.4	1039.6	1045.6	1053.0	1058.4	1059.6	1060.9	1062.6	1062.0
7.5°	991.1	995.9	999.6	1013.5	1028.7	1048.1	1064.5	1073.0	1074.2	1080.9	1083.3
10°	964.9	971.0	977.0	991.7	1013.5	1042.6	1070.5	1091.2	1094.2	1110.0	1117.2
12.5°	963.7	969.8	977.6	993.4	1019.0	1049.9	1083.8	1113.7	1119.1	1142.2	1157.3
15°	976.5	983.8	991.1	1010.4	1037.8	1075.4	1111.8	1148.8	1154.3	1187.1	1203.5
17.5°	1002.6	1012.3	1017.7	1037.2	1066.3	1108.1	1156.1	1198.6	1203.5	1241.7	1262.3
20°	1054.1	1065.7	1067.5	1083.3	1111.8	1156.7	1213.8	1266.6	1272.6	1316.3	1339.4
22.5°	1160.9	1177.3	1162.8	1170.7	1196.2	1241.1	1303.0	1369.7	1378.2	1428.0	1448.6
25°	1349.1	1372.2	1334.6	1321.2	1332.1	1378.8	1456.5	1540.9	1550.6	1590.6	1600.9
27.5°	1718.7	1688.9	1631.9	1576.0	1543.3	1570.0	1657.4	1761.8	1773.9	1812.7	1800.6
30°	2124.7	2098.6	2021.5	1897.7	1820.0	1815.8	1896.5	2013.0	2026.9	2064.0	2026.9
32.5°	2531.3	2506.4	2422.7	2270.4	2135.6	2068.9	2124.7	2254.0	2261.3	2284.9	2230.3
35°	2931.2	2905.8	2822.0	2666.0	2500.4	2348.6	2337.7	2483.4	2485.7	2510.6	2429.4
37.5°	3333.6	3312.4	3223.1	3070.2	2906.9	2697.6	2596.2	2700.6	2703.6	2727.9	2643.6
40°	3620.6	3629.7	3568.4	3450.2	3309.9	3081.1	2886.3	2931.8	2913.7	2954.3	2903.9
42.5°	3867.0	3885.3	3831.9	3772.3	3691.0	3489.5	3245.6	3237.7	3208.6	3230.4	3178.2
45°	4080.0	4095.2	4047.3	4033.3	4031.5	3890.1	3638.2	3590.9	3550.2	3546.0	3483.5
47.5°	4158.3	4187.4	4208.1	4254.9	4345.9	4286.3	4044.2	3970.8	3925.3	3891.9	3793.0
50°	4188.0	4219.0	4289.4	4425.3	4640.8	4666.3	4448.4	4365.9	4310.0	4249.3	4103.7
52.5°	4148.0	4203.2	4297.9	4526.7	4839.2	4970.9	4836.3	4764.0	4700.2	4601.3	4385.3
55°	3911.9	3967.2	4160.8	4525.5	4938.1	5184.6	5202.8	5170.6	5099.0	4943.1	4612.9
57.5°	3414.3	3496.3	3802.7	4371.3	4936.4	5368.4	5562.1	5585.1	5505.0	5281.6	4791.9
60°	2724.9	2836.0	3209.8	4029.7	4784.0	5468.0	5877.0	5992.4	5907.4	5615.5	4936.9
62.5°	1901.4	2030.0	2383.8	3494.4	4435.7	5396.3	6107.1	6320.0	6255.7	5914.0	4992.8
65°	1159.8	1201.0	1486.2	2749.8	3843.3	5096.6	6178.0	6497.3	6476.1	6096.7	4910.3
67.5°	772.5	807.2	889.1	1885.6	2983.4	4497.6	6008.1	6466.3	6472.4	6067.0	4608.0
70°	465.5	495.2	548.6	1096.6	1933.6	3559.9	5481.9	6071.8	6107.1	5669.5	4035.1
72.5°	191.8	211.8	260.3	497.0	1001.3	2259.4	4365.3	5213.0	5295.0	4767.1	3096.9
75°	108.6	118.9	152.9	249.4	434.5	1053.0	2644.2	3700.8	3821.5	3285.6	1863.1
77.5°	72.3	77.1	98.9	161.4	244.6	359.3	1130.0	1928.0	2158.6	1794.6	806.6
80°	48.6	52.8	68.0	108.0	159.0	154.2	359.9	714.3	878.7	616.6	196.6
82.5°	32.8	33.4	48.6	71.0	100.8	74.6	106.2	222.1	279.2	178.5	74.6
85°	18.9	18.2	35.8	41.3	44.9	31.0	32.2	66.7	87.4	75.2	42.4
87.5°	2.5	3.7	13.9	11.0	6.0	6.7	6.7	11.5	17.0	18.2	9.1
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°	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0	1053.0
2.5°	1054.1	1053.5	1051.8	1049.9	1045.6	1043.2	1044.5	1043.2	1042.6	1043.2	1045.6
5°	1062.0	1060.3	1055.3	1049.3	1040.8	1030.4	1023.8	1014.1	1005.0	999.6	1000.7
7.5°	1083.3	1081.5	1074.8	1057.8	1030.4	987.4	947.9	913.4	887.2	872.1	872.7
10°	1117.2	1114.3	1103.9	1066.3	994.7	900.6	822.4	757.4	714.9	694.8	693.1
12.5°	1157.3	1153.6	1135.5	1058.4	926.7	779.8	671.8	599.6	560.2	542.5	540.7
15°	1204.7	1199.8	1164.0	1020.8	827.8	646.4	547.5	493.4	467.9	452.1	452.7
17.5°	1263.5	1255.0	1185.2	964.3	720.4	544.4	471.0	430.3	407.8	392.7	391.4
20°	1340.0	1326.0	1202.2	897.0	621.5	480.0	419.3	385.4	368.4	355.1	352.6
22.5°	1446.8	1426.8	1222.8	824.1	551.7	435.7	381.1	356.2	342.2	327.1	324.7
25°	1579.1	1555.4	1248.3	756.8	503.7	397.5	353.2	332.6	316.2	298.6	296.7
27.5°	1764.2	1721.7	1278.7	701.5	462.5	364.7	327.7	304.6	285.9	271.3	268.2
30°	1970.6	1900.8	1305.4	668.2	424.9	334.4	294.4	271.3	253.7	243.3	241.5
32.5°	2165.9	2071.3	1323.0	653.6	390.8	299.8	257.9	233.1	219.7	216.7	218.4
35°	2350.4	2225.4	1321.2	639.6	360.5	265.2	222.1	196.6	186.3	188.1	188.1
37.5°	2562.8	2389.9	1308.4	617.8	335.6	233.6	191.2	168.7	159.6	160.2	162.7
40°	2809.8	2579.8	1300.5	576.6	308.3	204.5	165.6	147.5	140.8	138.4	137.8
42.5°	3073.3	2763.7	1301.8	529.8	274.3	178.5	148.1	132.9	126.8	125.0	124.4
45°	3337.8	2939.1	1303.6	481.2	238.5	158.4	135.3	122.6	118.9	116.5	116.5
47.5°	3586.7	3088.4	1269.6	429.1	203.3	143.2	125.0	116.5	113.5	110.5	110.5
50°	3818.4	3188.0	1187.7	368.4	175.4	131.1	117.2	111.1	108.0	105.0	105.0
52.5°	3998.7	3203.7	1052.4	305.9	156.0	122.0	112.2	106.8	103.2	100.1	99.5
55°	4078.8	3104.8	860.0	247.6	140.8	114.1	107.4	102.0	97.7	94.7	94.1
57.5°	4058.2	2896.6	670.6	199.1	126.3	106.2	101.4	97.7	92.9	88.0	87.4
60°	3956.8	2618.1	505.5	165.6	112.9	97.7	94.7	91.6	85.0	77.7	76.5
62.5°	3781.4	2267.9	360.5	137.1	98.3	88.0	86.8	84.4	74.6	61.3	60.1
65°	3513.2	1842.4	242.7	114.1	84.4	77.1	77.7	73.4	60.7	45.5	44.3
67.5°	3121.2	1347.3	155.4	93.5	70.4	64.4	65.0	62.5	51.6	38.8	37.0
70°	2621.7	892.2	101.4	71.0	56.5	49.8	53.4	54.0	43.7	31.6	30.3
72.5°	1922.0	526.7	71.0	52.8	41.3	34.5	43.7	44.9	35.2	23.7	22.4
75°	1095.4	250.0	53.4	38.2	25.5	24.3	34.0	34.0	24.3	15.8	14.6
77.5°	460.0	104.3	37.6	24.9	14.6	13.9	23.1	21.2	12.1	7.3	7.3
80°	132.9	46.7	20.0	12.1	6.0	5.4	9.1	6.7	3.1	1.2	1.2
82.5°	52.2	20.6	7.9	4.8	2.5	2.5	1.2	0.0	0.0	0.0	0.0
85°	31.0	8.5	3.7	1.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.9	1.8	1.2	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)