

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: P969838

Luminaire Tested: **NAV-SB6A-735-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-735-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23606.8 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 170.9
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

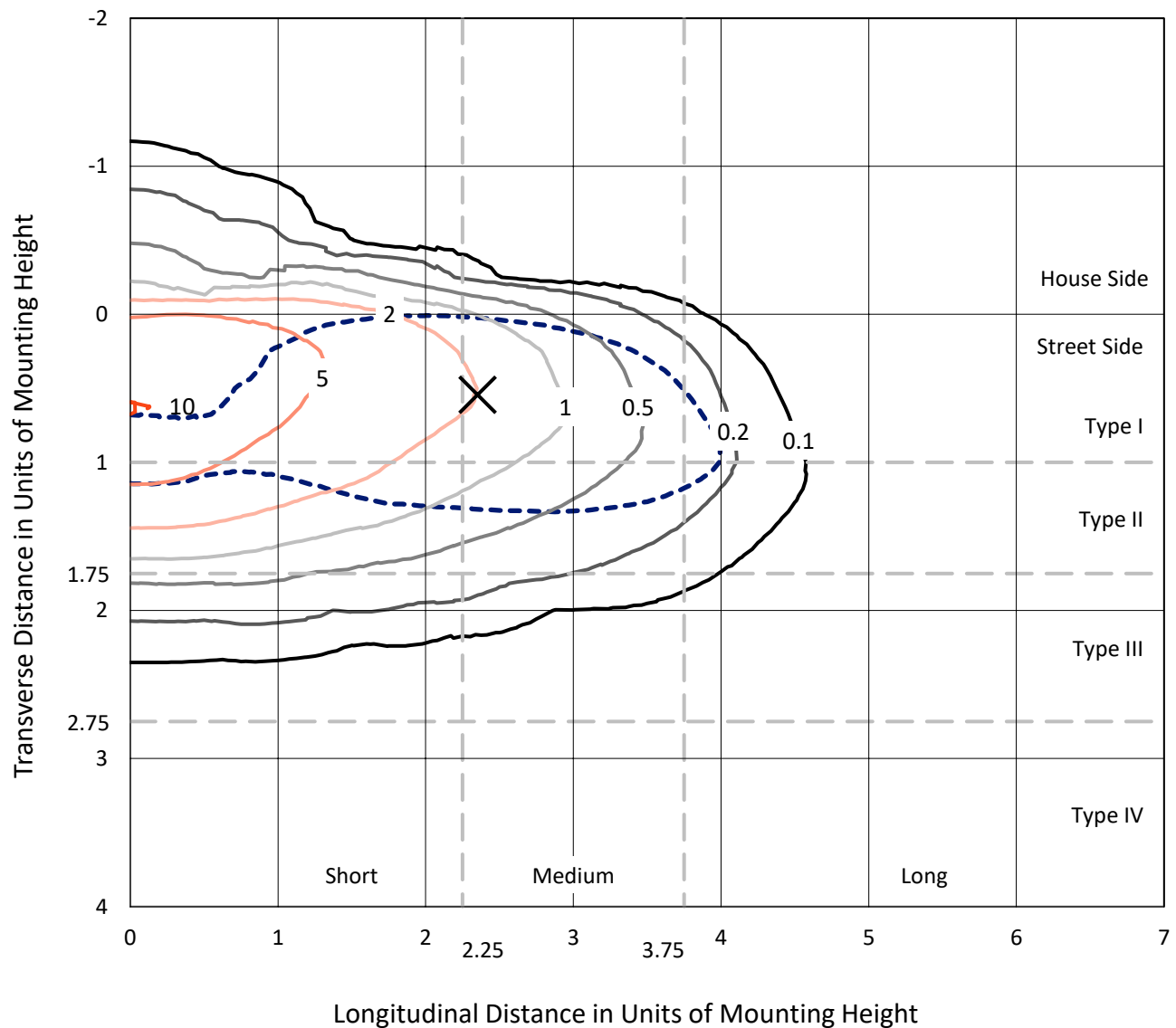


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Iso-Footcandle Lines of Horizontal Illumination

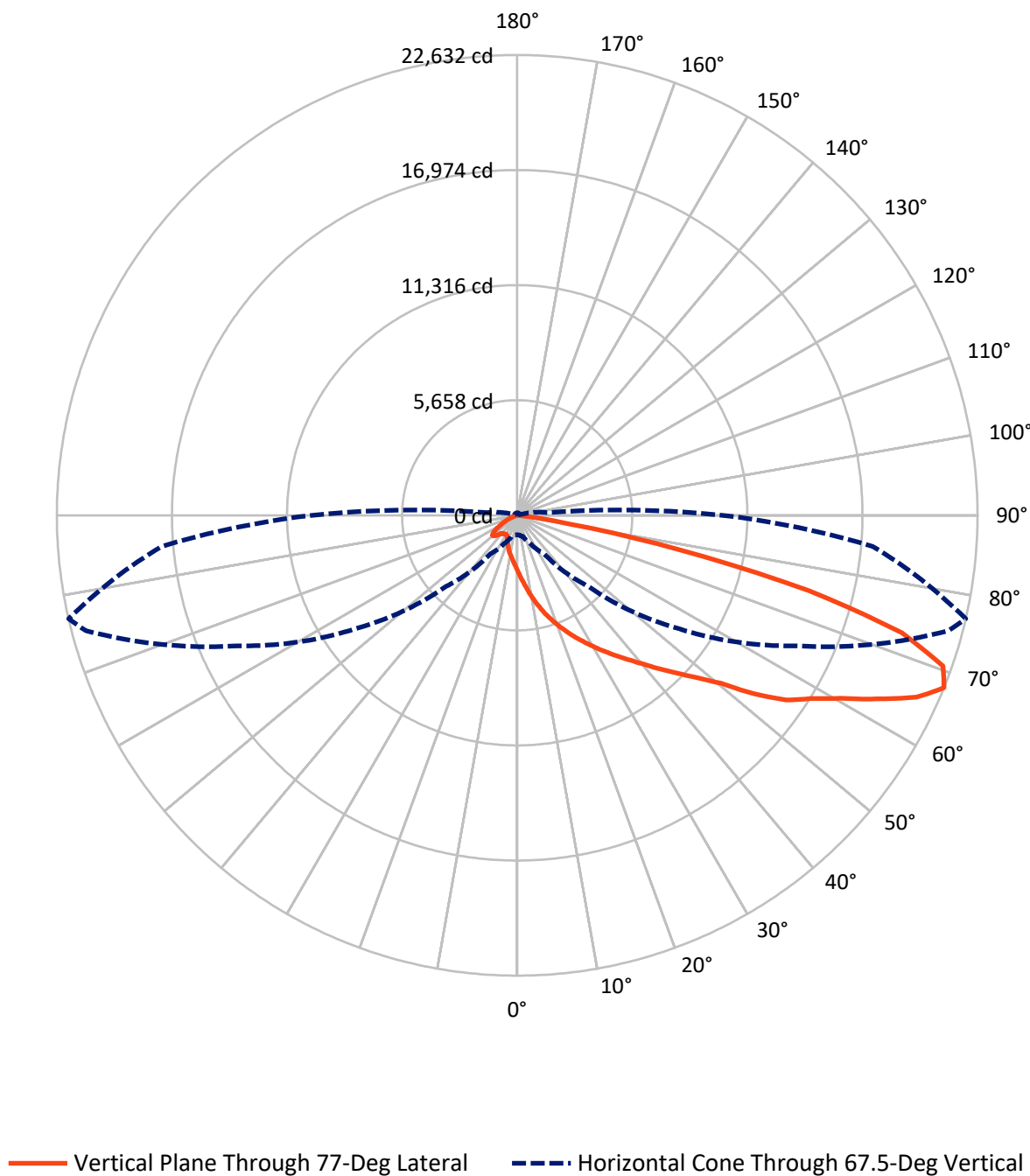
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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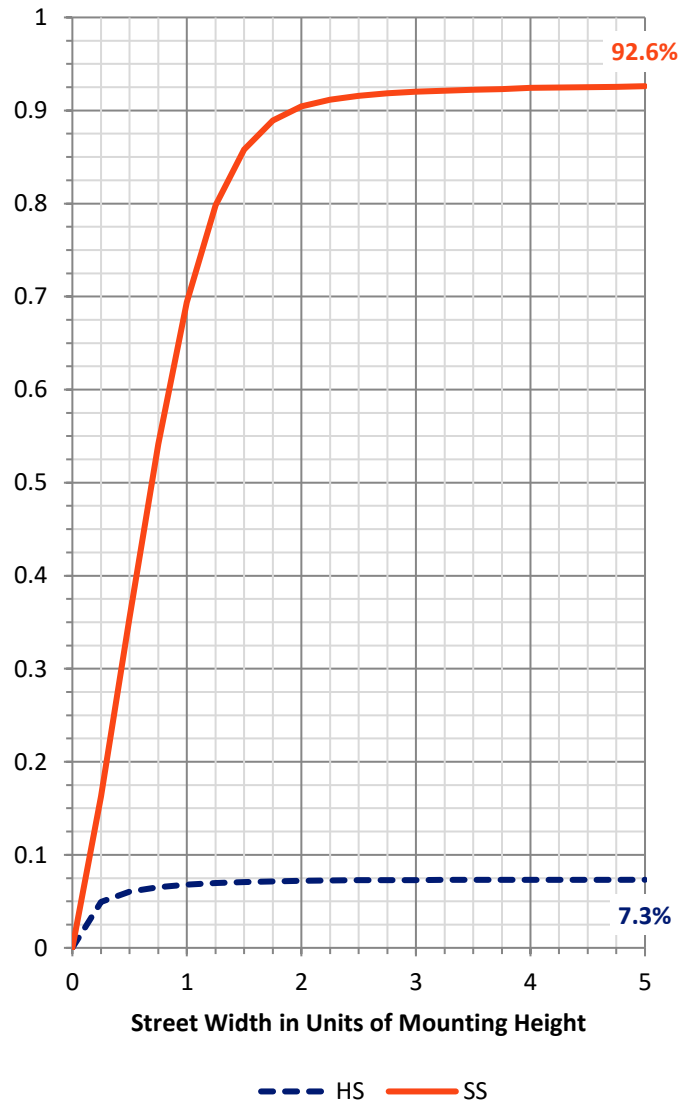
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1736.8	0.0	1736.8
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	21870.0	0.0	21870.0
	% Fixture	92.6	0.0	92.6
Total	Lumens	23606.8	0.0	23606.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.8	1.2
10°-20°	973.0	4.1
20°-30°	1877.6	8.0
30°-40°	3259.6	13.8
40°-50°	4732.8	20.0
50°-60°	5435.0	23.0
60°-70°	4718.6	20.0
70°-80°	2222.5	9.4
80°-90°	109.9	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°	23606.8	100.0
0°-180°	23606.8	100.0

Coefficient of Utilization



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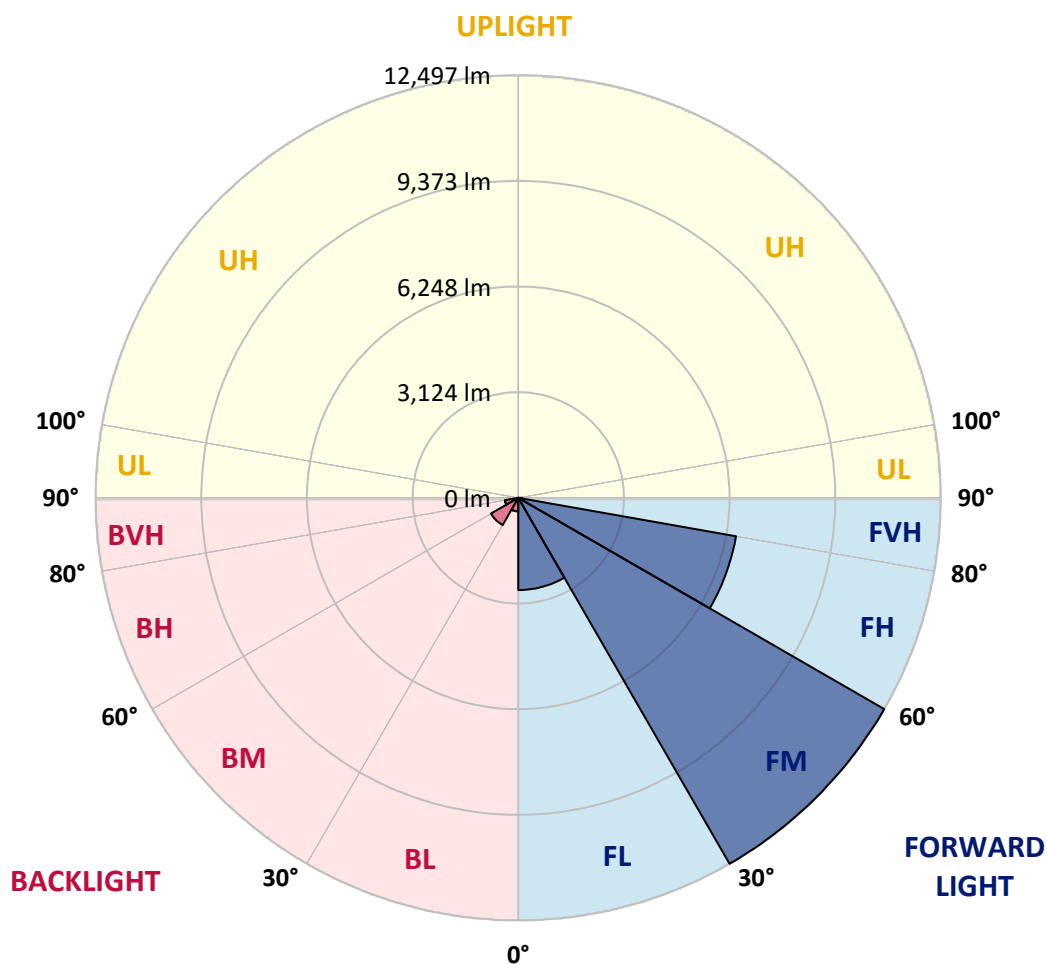
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2726.3	11.5			
FM	(30°-60°)	12496.8	52.9			
FH	(60°-80°)	6539.0	27.7			G3/7500
FVH	(80°-90°)	107.9	0.5			G2/225
BL	(0°-30°)	402.1	1.7	B1/500		
BM	(30°-60°)	930.6	3.9	B1/1000		
BH	(60°-80°)	402.1	1.7	B1/500		G1/500
BVH	(80°-90°)	2.0	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2722.2	2722.2	2722.2	2722.2	2722.2	2722.2	2722.2	2722.2	2722.2	2722.2	2722.2
2.5°	3768.8	3792.3	3758.6	3694.1	3597.3	3534.3	3380.4	3235.3	3074.1	3022.7	2861.5
5°	4594.2	4614.8	4576.6	4506.2	4377.3	4254.1	4051.8	3748.3	3433.1	3332.1	3046.2
7.5°	5205.5	5217.2	5202.5	5138.0	5014.9	4875.6	4649.9	4290.8	3823.1	3711.7	3273.4
10°	5645.3	5683.3	5679.0	5654.0	5571.9	5459.0	5218.7	4809.7	4260.0	4116.3	3529.9
12.5°	5937.0	5979.4	6004.3	6060.1	6055.7	5983.8	5772.8	5340.4	4695.3	4526.7	3818.7
15°	6022.0	6067.4	6162.7	6291.8	6406.0	6442.7	6294.6	5860.7	5174.7	4959.2	4114.9
17.5°	5973.6	6044.0	6158.3	6362.1	6612.8	6778.4	6762.2	6363.5	5610.0	5363.8	4405.0
20°	6080.6	6148.1	6237.4	6409.0	6700.7	7001.3	7121.4	6844.3	6042.5	5784.5	4710.0
22.5°	6672.9	6661.2	6669.9	6697.8	6872.2	7169.8	7417.5	7281.2	6470.5	6206.7	5032.4
25°	7611.0	7558.2	7468.9	7317.9	7273.9	7417.5	7675.5	7668.2	6922.0	6639.1	5362.3
27.5°	8687.0	8678.3	8468.7	8105.1	7899.8	7844.1	7967.2	8044.9	7369.1	7067.2	5693.7
30°	9717.6	9741.0	9458.1	9053.5	8676.7	8458.3	8346.9	8402.6	7823.6	7528.9	6035.2
32.5°	10614.7	10639.6	10331.8	9858.2	9392.2	9128.2	8893.7	8756.0	8319.1	7998.1	6410.5
35°	11372.6	11397.5	11044.2	10520.9	10024.0	9785.0	9519.7	9142.9	8817.5	8518.5	6828.2
37.5°	12049.8	12042.5	11569.0	11041.3	10553.1	10364.1	10224.8	9619.3	9330.6	9041.7	7291.4
40°	12450.1	12480.8	12076.2	11494.2	11020.8	10882.9	10874.1	10210.1	9922.8	9642.8	7798.7
42.5°	12567.3	12621.5	12328.4	11850.4	11421.0	11271.4	11501.6	10849.2	10611.8	10339.1	8371.9
45°	12356.2	12409.0	12275.6	11944.3	11693.6	11596.8	12041.1	11511.9	11347.7	11077.9	9018.4
47.5°	11740.6	11806.5	11838.7	11768.3	11765.5	11863.7	12524.8	12209.6	12221.4	11945.8	9767.4
50°	10548.8	10660.1	10956.2	11205.5	11591.0	12074.8	12995.4	12966.0	13206.4	12969.0	10743.7
52.5°	8382.1	8540.4	9560.7	10242.3	11108.7	12035.1	13512.8	14179.8	14934.8	14587.4	12120.2
55°	6735.9	6735.9	7565.6	8840.9	10167.6	11774.3	13738.6	14968.5	16111.9	16029.8	13089.1
57.5°	5491.3	5557.2	6086.4	7213.7	8805.8	11152.7	13877.9	15464.0	17060.3	17000.2	14036.1
60°	3389.2	3531.4	4531.1	5643.8	7256.3	10045.9	13789.8	15965.3	18211.1	18259.5	15176.7
62.5°	1908.7	1961.4	2407.0	4060.6	5642.3	8558.0	13117.0	16245.3	19682.9	19888.1	16352.3
65°	1317.8	1344.3	1515.8	2527.2	3911.1	6813.6	11802.1	16070.9	21157.5	21572.5	17349.1
67.5°	957.2	970.5	1077.5	1543.6	2320.5	4940.1	9741.0	15191.3	21938.9	22632.3	17539.7
70°	735.8	744.7	822.4	1014.4	1370.6	3049.1	7074.6	13442.5	21373.1	22201.3	16563.4
72.5°	598.1	606.9	667.0	750.5	908.9	1803.1	4287.8	10916.7	18875.2	19769.4	14100.6
75°	504.3	516.0	570.2	624.4	712.5	1158.0	2011.3	7602.2	14194.5	14780.8	9805.6
77.5°	280.0	258.0	463.2	517.4	601.1	733.0	941.2	4474.0	7949.7	8112.4	4350.8
80°	174.5	180.3	368.0	416.4	461.8	369.4	431.0	1722.4	2755.9	2618.2	842.9
82.5°	10.2	23.5	282.9	300.5	316.6	158.4	162.7	584.9	664.1	609.8	149.5
85°	0.0	0.0	129.0	104.0	110.0	45.4	46.9	136.3	89.4	96.8	29.3
87.5°	0.0	0.0	0.0	3.0	0.0	4.4	8.8	11.7	4.4	5.8	10.2
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°	2722.2	2722.2	2722.2	2722.2	2722.2	2722.2	2722.2	2722.2	2722.2	2722.2	2722.2
2.5°	2758.9	2656.3	2448.1	2244.3	2078.7	1924.7	1814.8	1710.7	1657.9	1655.1	1652.1
5°	2842.4	2627.0	2210.6	1842.6	1546.5	1309.0	1155.2	1045.2	989.5	970.5	967.5
7.5°	2959.7	2635.7	2002.4	1490.9	1142.0	938.2	850.2	815.1	803.3	790.2	787.2
10°	3107.7	2656.3	1816.3	1200.6	900.1	797.4	762.3	747.6	738.8	730.0	727.1
12.5°	3273.4	2675.2	1631.6	996.8	791.6	738.8	713.9	696.3	684.6	674.3	671.4
15°	3434.7	2687.0	1439.5	854.6	735.8	693.4	667.0	647.9	631.8	620.1	618.6
17.5°	3594.5	2703.1	1259.2	769.6	690.4	647.9	621.6	598.1	584.9	571.7	570.2
20°	3771.8	2700.3	1089.2	709.5	645.0	602.5	574.6	552.7	539.5	524.8	523.4
22.5°	3936.0	2685.6	939.6	658.2	598.1	557.1	526.2	504.3	491.1	479.4	477.9
25°	4125.1	2673.8	815.1	611.3	554.1	513.1	479.4	458.8	444.1	433.9	432.4
27.5°	4306.8	2656.3	724.2	568.8	511.6	472.0	439.7	416.4	403.1	395.8	395.8
30°	4485.7	2651.9	690.4	527.8	473.4	433.9	401.7	379.7	369.4	366.4	365.0
32.5°	4701.2	2663.6	705.1	513.1	438.3	398.7	368.0	351.8	341.5	341.5	341.5
35°	4931.4	2660.6	727.1	526.2	414.8	363.6	340.1	329.8	319.6	319.6	319.6
37.5°	5220.1	2665.0	744.7	548.3	406.1	334.3	321.0	307.8	302.0	302.0	302.0
40°	5651.1	2810.1	735.8	567.3	403.1	313.8	287.3	282.9	278.5	278.5	278.5
42.5°	6178.8	3125.3	747.6	568.8	401.7	299.1	263.8	272.6	262.4	261.0	259.4
45°	6756.4	3469.8	822.4	538.0	400.2	291.7	252.2	262.4	246.3	246.3	246.3
47.5°	7329.6	3811.4	898.6	494.0	395.8	290.3	241.9	236.1	231.6	233.1	233.1
50°	8119.7	4090.0	927.9	433.9	385.5	287.3	222.8	224.3	221.4	224.3	224.3
52.5°	8980.2	4148.6	892.8	366.4	356.2	278.5	209.6	215.5	214.0	217.0	217.0
55°	9516.7	4085.5	737.4	304.9	310.8	243.3	196.4	208.2	208.2	208.2	208.2
57.5°	10070.8	3817.2	523.4	247.7	258.0	199.4	184.7	200.8	199.4	197.9	197.9
60°	10469.6	3383.3	344.5	203.8	205.2	164.2	171.5	189.1	187.7	180.3	180.3
62.5°	10767.1	2904.0	221.4	173.0	156.8	148.0	156.8	171.5	165.6	149.5	146.6
65°	10733.5	2239.9	170.0	148.0	129.0	129.0	136.3	149.5	131.9	105.6	102.6
67.5°	10107.5	1515.8	140.7	124.6	108.4	107.0	112.9	124.6	112.9	89.4	86.5
70°	8989.0	991.0	112.9	96.8	86.5	79.1	90.9	107.0	95.3	71.9	68.9
72.5°	7295.8	603.9	85.0	70.3	63.0	51.4	71.9	87.9	76.3	52.8	49.8
75°	4720.2	307.8	58.6	45.4	33.7	30.7	52.8	66.0	52.8	32.3	27.9
77.5°	1806.0	129.0	32.3	20.5	17.6	14.7	29.3	39.6	22.0	7.4	5.8
80°	347.4	54.2	16.1	10.2	8.8	5.8	4.4	3.0	0.0	0.0	0.0
82.5°	60.1	17.6	5.8	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.4	0.0	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)