

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: P965101

Luminaire Tested: **NAV-SB3D-735-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965101
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-SB3D-735-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

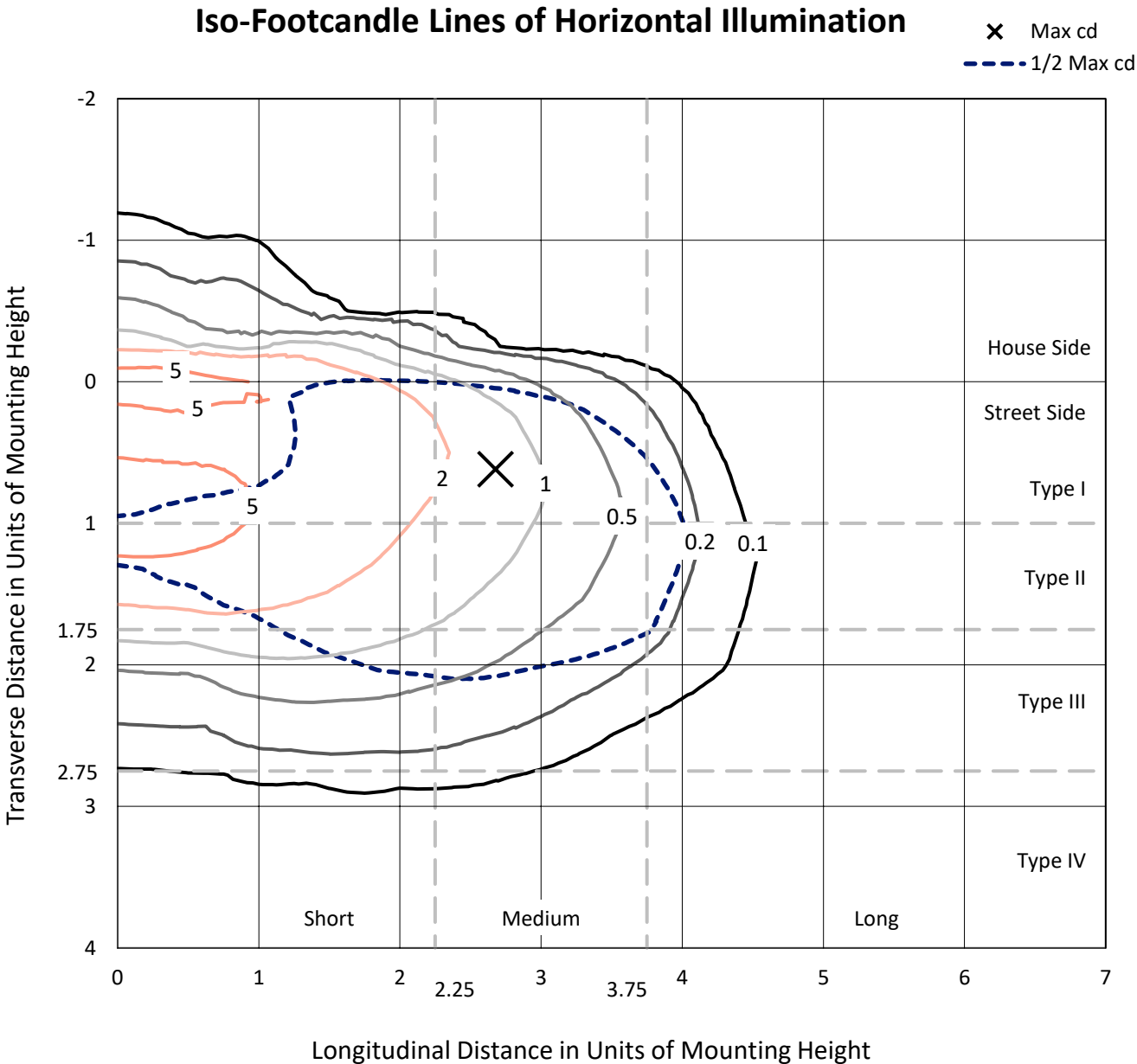
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26054.5 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 218.1
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



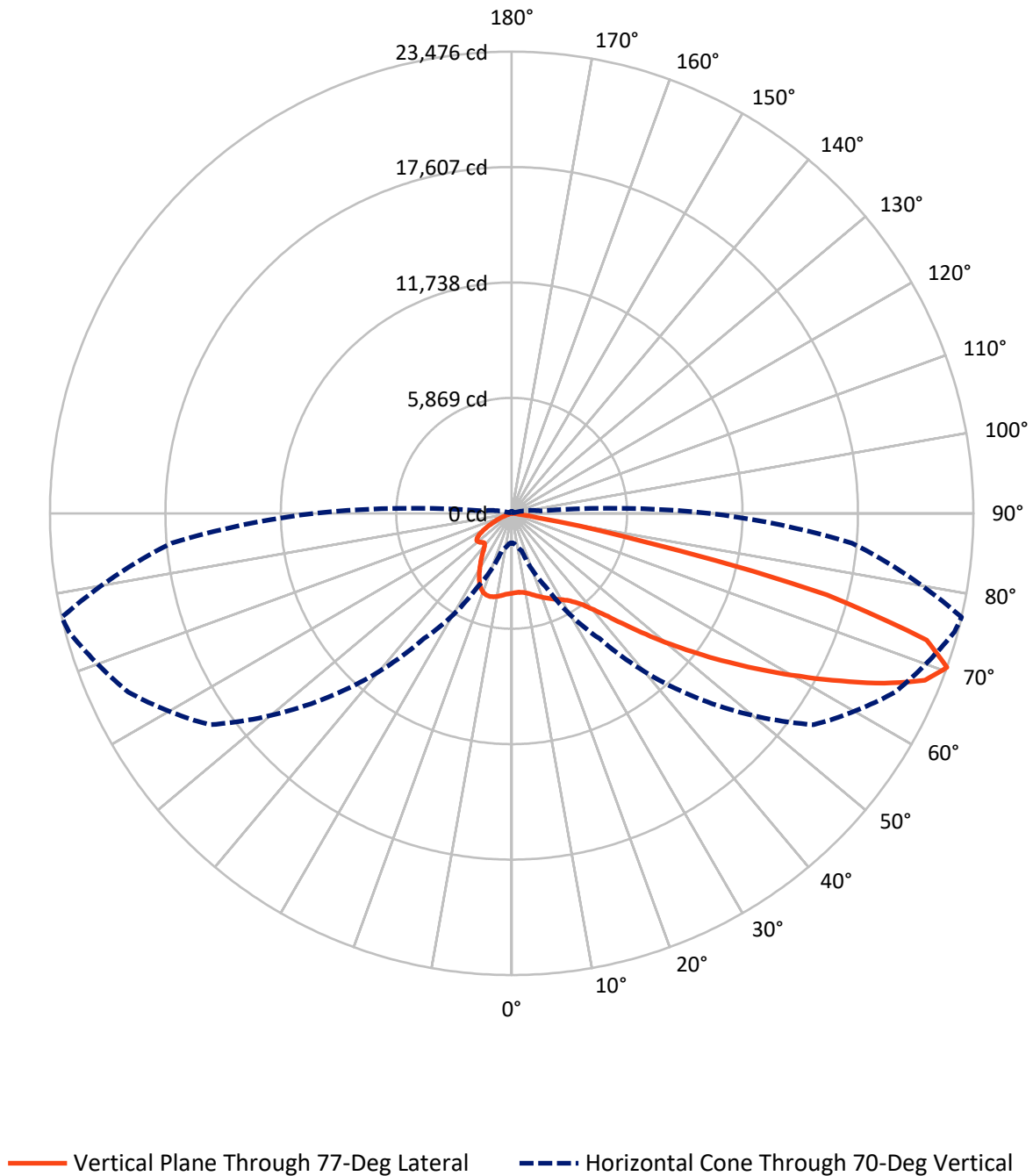
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Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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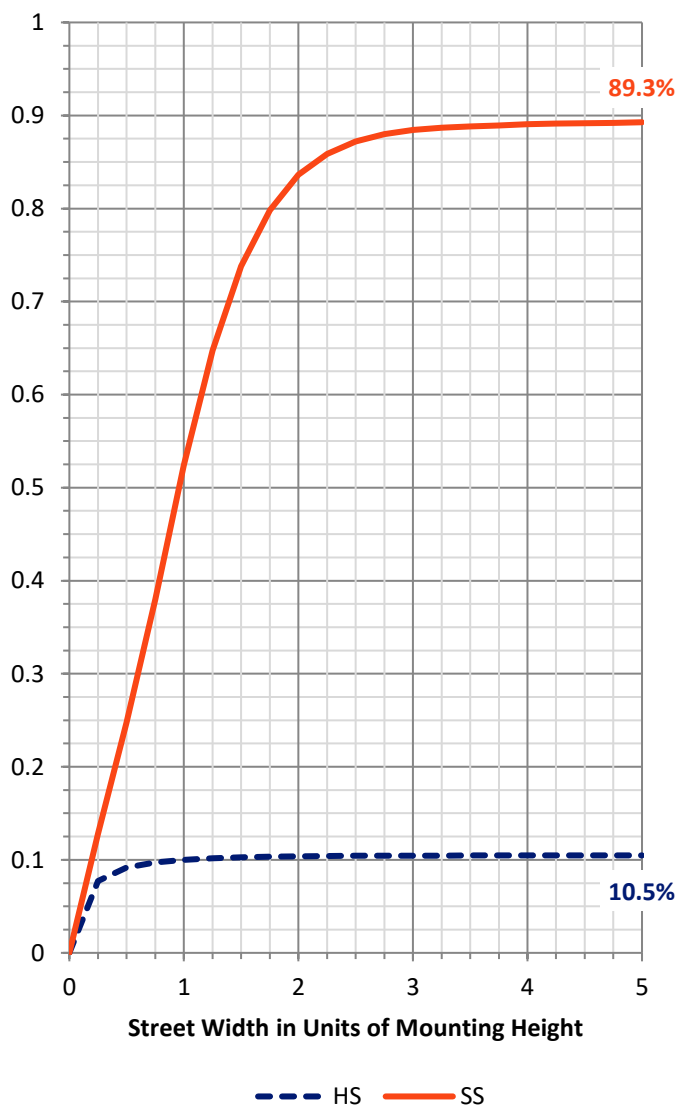
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2746.5	0.0	2746.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	23308.0	0.0	23308.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	26054.5	0.0	26054.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.3	1.3
10°-20°	831.5	3.2
20°-30°	1286.0	4.9
30°-40°	2333.6	9.0
40°-50°	4404.9	16.9
50°-60°	6364.8	24.4
60°-70°	6775.1	26.0
70°-80°	3590.4	13.8
80°-90°	117.9	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°	26054.5	100.0
0°-180°	26054.5	100.0

Coefficient of Utilization



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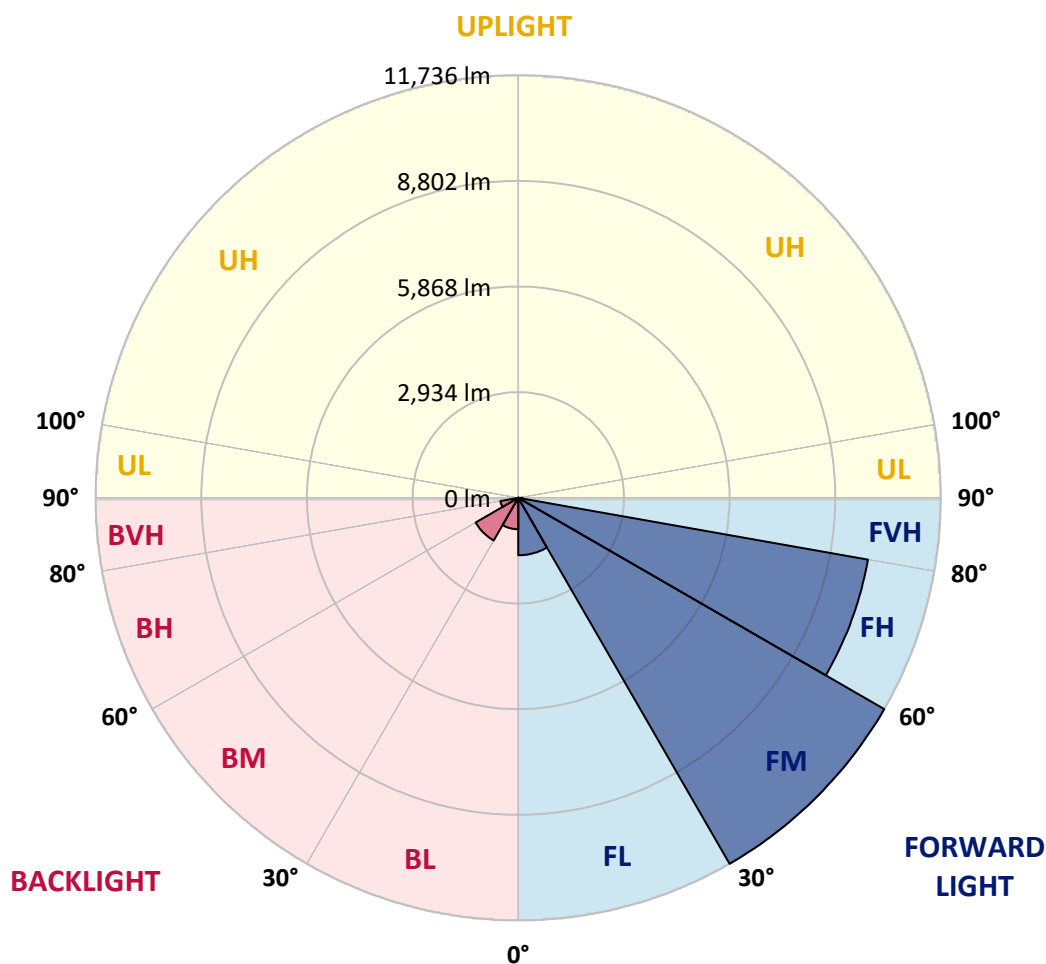
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1595.1	6.1			
FM	(30°-60°)	11736.1	45.0			
FH	(60°-80°)	9862.0	37.9			G4/12000
FVH	(80°-90°)	114.7	0.4			G2/225
BL	(0°-30°)	872.6	3.3	B2/1000		
BM	(30°-60°)	1367.2	5.2	B2/2500		
BH	(60°-80°)	503.5	1.9	B2/1000		G2/1000
BVH	(80°-90°)	3.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4064.0	4064.0	4064.0	4064.0	4064.0	4064.0	4064.0	4064.0	4064.0	4064.0	4064.0
2.5°	3815.6	3850.1	3845.2	3868.2	3876.4	3909.3	3942.3	3986.7	4036.0	4034.4	4067.3
5°	3600.0	3634.5	3642.8	3674.1	3713.6	3764.6	3832.1	3920.9	4013.0	4027.8	4093.6
7.5°	3345.0	3381.2	3402.6	3465.1	3537.5	3642.8	3753.0	3883.0	4036.0	4057.5	4184.2
10°	3090.0	3122.9	3150.8	3239.7	3354.9	3511.1	3690.5	3878.1	4083.8	4115.1	4294.3
12.5°	2932.0	2963.3	2994.5	3071.9	3215.0	3405.9	3649.4	3901.2	4162.7	4207.2	4444.1
15°	2876.0	2904.0	2928.7	2997.8	3131.1	3348.3	3641.2	3948.8	4263.1	4322.3	4625.1
17.5°	2884.4	2899.1	2915.6	2968.2	3098.2	3321.9	3656.0	4031.1	4381.6	4434.3	4806.1
20°	2932.0	2940.2	2941.9	2978.1	3093.2	3318.6	3685.6	4110.1	4493.5	4564.2	4985.4
22.5°	2992.9	2996.2	2992.9	3017.6	3124.5	3343.3	3725.1	4205.6	4618.5	4684.4	5166.4
25°	3277.5	3215.0	3136.1	3088.3	3177.2	3391.1	3784.3	4333.9	4755.1	4819.2	5342.5
27.5°	4161.1	3981.7	3698.7	3381.2	3285.7	3460.2	3866.6	4463.9	4893.2	4950.9	5531.7
30°	5595.9	5360.5	4880.1	4164.4	3634.5	3604.9	3973.5	4593.8	5039.7	5102.2	5734.1
32.5°	7033.9	6976.4	6421.8	5431.3	4419.4	3927.5	4151.2	4769.8	5233.9	5283.3	6007.2
35°	8488.4	8371.6	7917.4	6938.4	5628.8	4584.0	4447.4	5000.3	5488.9	5544.8	6405.3
37.5°	9602.3	9531.6	9250.2	8443.9	7063.5	5597.5	4954.1	5357.3	5859.1	5921.6	6915.5
40°	10586.2	10553.3	10457.9	9926.4	8667.7	6923.7	5742.3	5910.2	6372.4	6446.5	7540.6
42.5°	11359.6	11436.8	11491.2	11343.1	10321.3	8437.4	6801.9	6686.7	7088.2	7163.8	8337.0
45°	12151.0	12177.3	12396.1	12610.0	11963.4	10020.2	7996.4	7596.6	7978.3	8072.1	9291.3
47.5°	12659.4	12764.6	13149.7	13526.5	13343.9	11589.9	9279.8	8671.0	9010.0	9186.0	10360.8
50°	12697.2	12896.3	13426.1	14082.6	14349.2	13083.8	10675.1	9895.1	10255.5	10449.7	11502.7
52.5°	12067.0	12376.4	13197.4	14158.3	14892.1	14349.2	12118.1	11119.3	11581.7	11835.1	12687.3
55°	9251.9	9656.6	12336.9	13747.0	14913.5	15308.4	13523.1	12394.5	13059.2	13345.5	13967.5
57.5°	8060.6	8264.6	9699.4	13032.9	14517.0	15695.0	14793.4	13608.7	14666.7	15022.1	15176.8
60°	6706.5	6974.6	8134.6	11864.7	13979.0	15732.9	15915.5	15175.1	16409.1	16809.0	16285.7
62.5°	4557.7	4848.9	6002.3	9857.3	13243.5	15714.8	16835.3	16787.6	18345.8	18775.1	17225.2
65°	2823.5	3006.0	3766.3	8049.1	12215.1	15734.6	17797.8	18745.5	20389.2	20825.2	17952.5
67.5°	2231.1	2315.1	2711.5	6179.9	10443.1	15290.3	18758.7	20586.7	22312.7	22658.1	18174.6
70°	1499.0	1549.9	1972.8	4143.0	7769.4	13240.1	18740.6	21511.4	23303.2	23475.9	17365.0
72.5°	789.8	829.2	1153.4	1918.5	4692.6	9411.4	15797.1	20405.7	22317.6	22057.6	14842.7
75°	394.9	460.7	776.6	974.1	2004.1	5248.7	9809.6	16088.3	17565.8	16558.9	9523.3
77.5°	299.5	361.9	641.6	641.6	697.6	1767.1	4154.5	8774.7	8093.5	6739.4	2795.5
80°	190.9	246.8	561.1	485.3	291.2	449.2	1082.6	2458.2	1719.4	1308.1	508.4
82.5°	111.9	161.2	467.3	320.8	162.9	166.2	306.1	523.3	445.9	347.2	156.3
85°	44.4	105.3	320.8	126.7	64.2	41.1	92.1	111.9	92.1	69.1	39.5
87.5°	0.0	24.7	56.0	0.0	4.9	3.3	6.6	8.2	8.2	6.6	13.1
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°	4064.0	4064.0	4064.0	4064.0	4064.0	4064.0	4064.0	4064.0	4064.0	4064.0	4064.0
2.5°	4082.2	4085.4	4095.3	4096.9	4073.9	4044.2	4032.8	4027.8	4008.1	4006.4	4009.7
5°	4131.5	4146.3	4131.5	4088.7	3986.7	3843.5	3735.0	3646.1	3565.5	3540.8	3526.0
7.5°	4230.2	4245.0	4200.6	4032.8	3776.1	3491.5	3234.8	3053.8	2890.9	2830.0	2805.3
10°	4371.7	4391.4	4251.6	3912.6	3458.6	3001.1	2566.8	2260.7	2022.1	1925.1	1884.0
12.5°	4549.4	4557.7	4279.6	3730.0	3045.6	2392.4	1776.9	1449.6	1237.3	1158.4	1133.6
15°	4745.2	4733.7	4282.9	3481.6	2482.9	1691.5	1160.0	952.6	867.2	840.8	840.8
17.5°	4950.9	4903.2	4217.1	3122.9	1865.8	1156.7	860.5	811.2	796.3	789.8	788.1
20°	5153.3	5046.3	4096.9	2653.9	1339.4	863.8	781.6	766.7	758.5	755.2	751.9
22.5°	5337.5	5154.9	3891.3	2109.3	972.4	763.4	738.7	725.6	710.8	704.2	702.5
25°	5516.9	5217.5	3601.6	1600.9	778.3	714.1	694.3	669.6	650.0	641.6	638.4
27.5°	5691.3	5256.9	3239.7	1184.7	694.3	668.0	631.8	597.3	582.4	579.1	575.8
30°	5877.2	5270.0	2828.4	883.6	643.3	610.4	557.8	518.2	510.0	511.7	511.7
32.5°	6104.3	5289.8	2413.8	724.0	600.5	541.3	478.8	437.7	431.1	437.7	436.0
35°	6375.7	5329.3	2013.9	666.4	562.7	470.6	403.1	368.6	361.9	367.0	365.3
37.5°	6744.3	5393.4	1640.4	654.9	531.5	411.3	339.0	311.0	311.0	312.6	311.0
40°	7234.7	5564.6	1306.4	646.7	515.0	367.0	286.3	274.8	279.7	283.0	283.0
42.5°	7831.9	5928.2	1081.0	636.7	496.9	347.2	259.9	255.0	263.2	266.5	266.5
45°	8501.6	6388.9	1002.0	620.3	480.4	360.3	248.5	241.9	251.7	253.4	255.0
47.5°	9194.2	6839.7	992.2	602.2	464.0	380.1	245.2	230.3	241.9	243.5	245.2
50°	9895.1	7134.3	1002.0	574.2	437.7	380.1	246.8	218.8	228.7	233.6	235.2
52.5°	10601.1	7269.2	995.5	513.3	391.5	357.0	246.8	209.0	218.8	222.1	222.1
55°	11285.5	7242.9	895.0	422.8	332.4	315.9	240.3	200.7	207.4	209.0	209.0
57.5°	11826.9	6875.9	709.2	329.0	269.9	263.2	218.8	190.9	195.8	194.1	194.1
60°	12109.9	6069.7	506.8	253.4	212.3	207.4	192.5	177.7	181.0	172.7	171.1
62.5°	12113.1	5003.5	339.0	200.7	169.4	164.5	164.5	159.6	156.3	139.8	134.9
65°	11854.7	3820.5	225.4	159.6	136.5	128.3	138.2	136.5	125.0	102.0	98.7
67.5°	11269.1	2504.3	171.1	125.0	105.3	100.3	110.3	115.2	106.9	85.6	83.9
70°	10064.7	1457.8	141.4	97.1	79.0	74.0	88.9	98.7	88.9	69.1	65.8
72.5°	8360.0	786.5	115.2	72.4	54.3	49.4	70.7	80.7	70.7	51.0	49.4
75°	5424.7	421.2	88.9	47.8	28.0	31.3	52.7	59.2	49.4	32.9	29.6
77.5°	1821.4	185.9	56.0	23.1	13.1	13.1	31.3	36.2	23.1	11.5	9.8
80°	406.4	77.3	23.1	9.8	4.9	4.9	6.6	6.6	3.3	0.0	0.0
82.5°	133.2	31.3	9.8	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	51.0	11.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.8	1.6	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)