

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: P970544

Luminaire Tested: **NAV-SB6B-835-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-835-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32180.9 lumens
Efficiency: N/A
Efficacy: 146.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 220.4
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



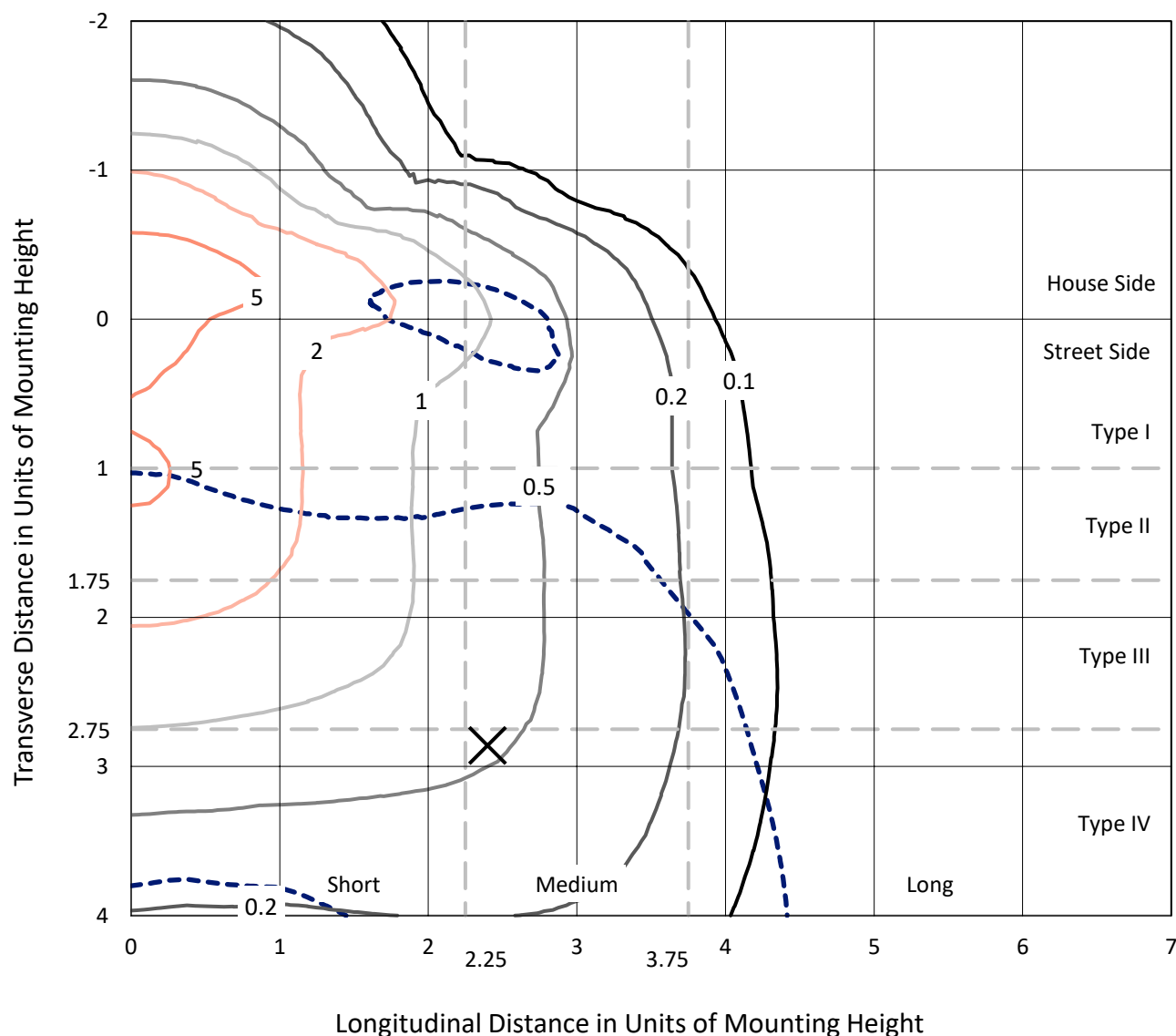
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

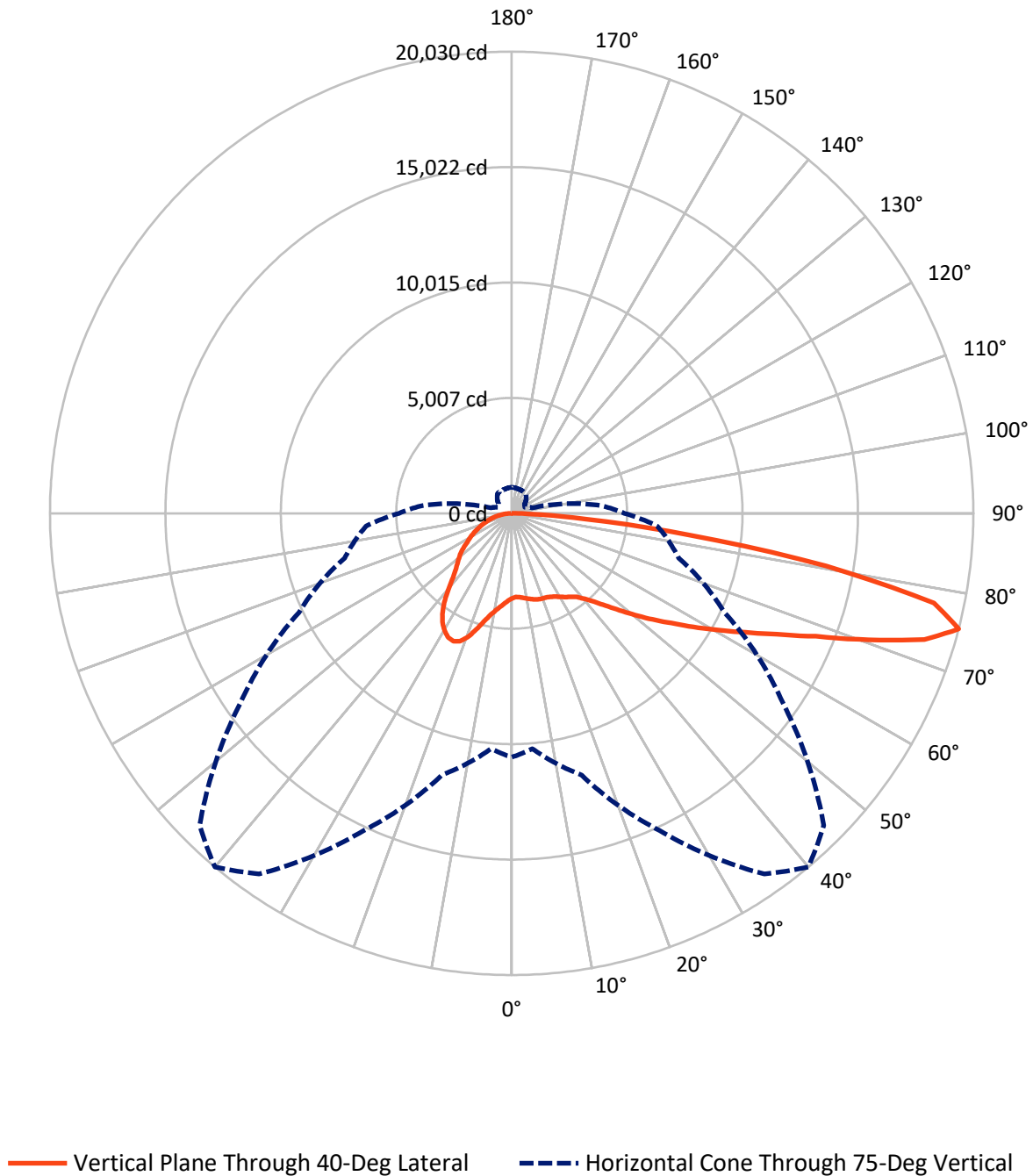
--- 1/2 Max cd



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

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Luminous Intensity Polar Plot



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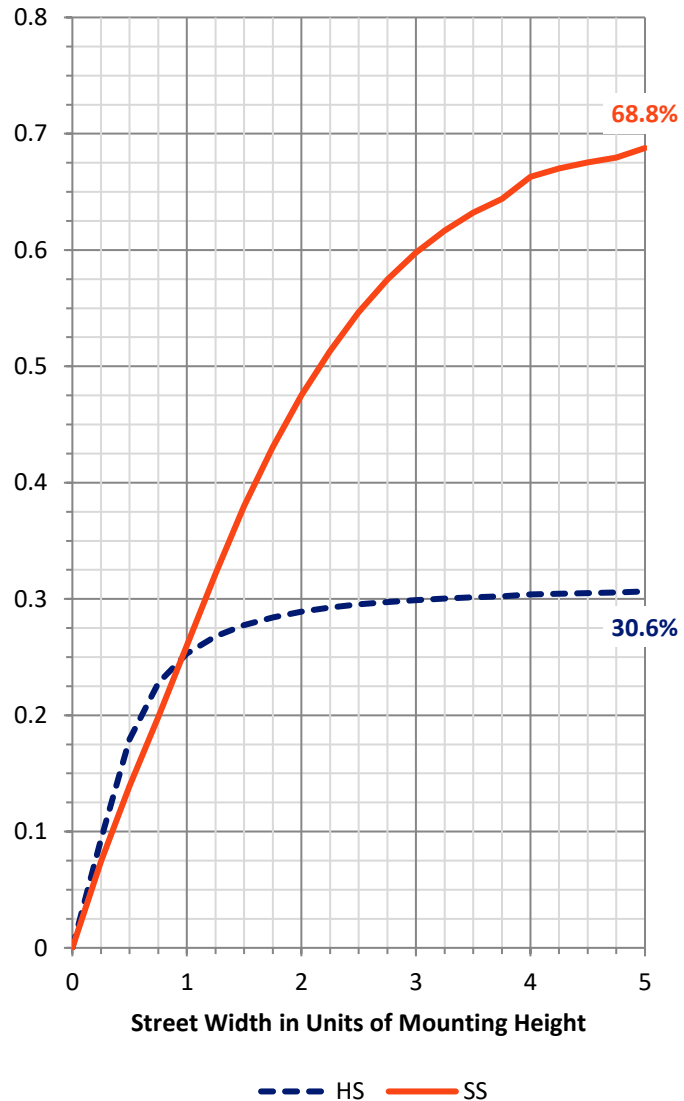
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9970.7	0.0	9970.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	22210.2	0.0	22210.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	32180.9	0.0	32180.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.3	1.1
10°-20°	1233.3	3.8
20°-30°	2251.9	7.0
30°-40°	3193.8	9.9
40°-50°	4312.6	13.4
50°-60°	5801.6	18.0
60°-70°	7363.5	22.9
70°-80°	6682.8	20.8
80°-90°	974.1	3.0
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°	32180.9	100.0
0°-180°	32180.9	100.0

Coefficient of Utilization



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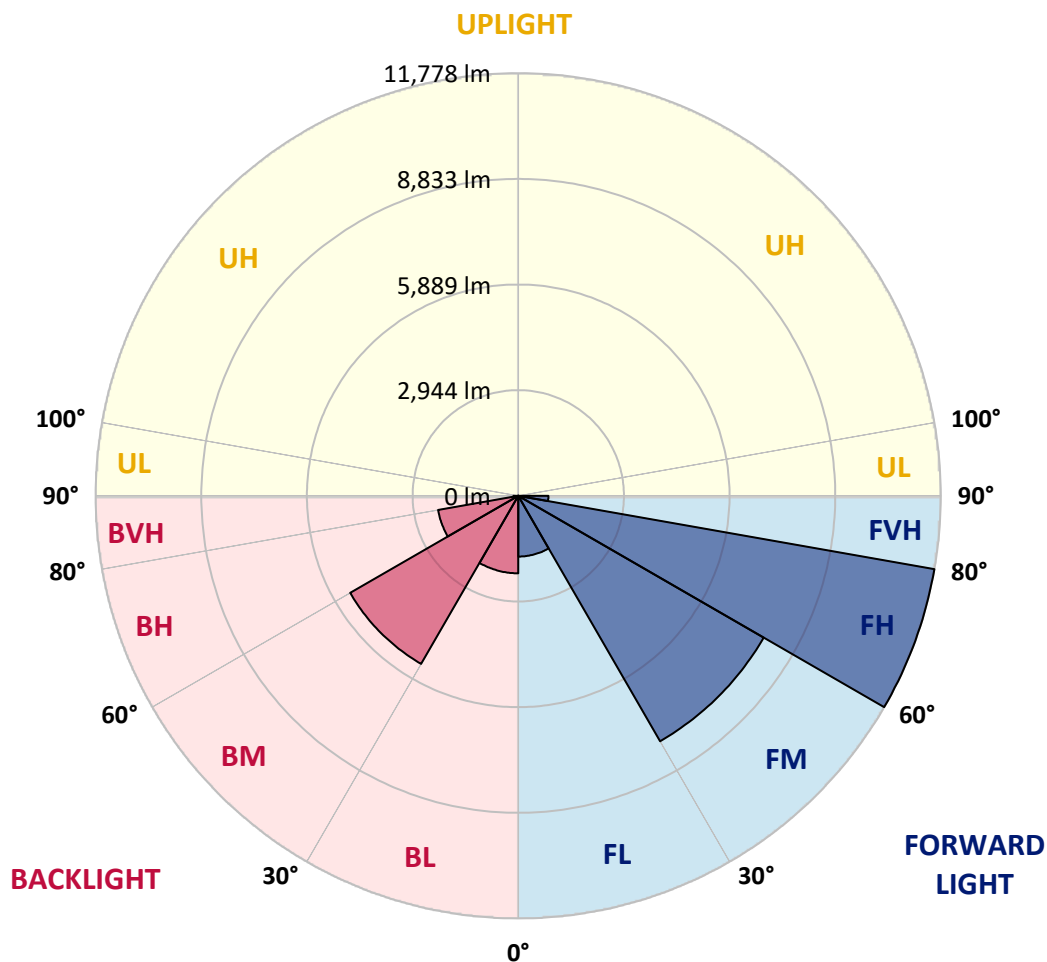
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1692.7	5.3			
FM	(30°-60°)	7899.7	24.5			
FH	(60°-80°)	11777.7	36.6			G4/12000
FVH	(80°-90°)	840.0	2.6			G5
BL	(0°-30°)	2159.8	6.7	B3/2500		
BM	(30°-60°)	5408.2	16.8	B4/8500		
BH	(60°-80°)	2268.6	7.0	B3/2500		G3/2500
BVH	(80°-90°)	134.1	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3680.0	3680.0	3680.0	3680.0	3680.0	3680.0	3680.0	3680.0	3680.0	3680.0	3680.0
2.5°	3623.6	3644.1	3639.0	3632.1	3632.1	3633.8	3632.1	3644.1	3656.1	3668.0	3686.7
5°	3661.2	3681.6	3671.3	3662.8	3656.1	3654.3	3649.2	3647.5	3654.3	3669.7	3695.3
7.5°	3734.6	3755.0	3739.7	3724.3	3710.6	3703.8	3697.0	3686.7	3681.6	3690.2	3726.0
10°	3816.5	3837.0	3818.2	3790.9	3768.7	3760.1	3753.3	3743.1	3736.2	3741.4	3780.6
12.5°	3898.4	3918.9	3893.3	3855.7	3826.7	3821.6	3813.1	3809.6	3808.0	3806.2	3845.5
15°	3975.3	3992.3	3959.9	3915.5	3884.7	3876.2	3867.6	3872.8	3881.4	3891.6	3936.0
17.5°	4034.9	4052.0	4004.3	3946.1	3917.1	3913.8	3908.6	3925.7	3949.6	3975.3	4029.8
20°	4089.5	4106.7	4045.2	3966.6	3932.5	3932.5	3934.3	3970.1	4004.3	4041.8	4116.9
22.5°	4166.4	4180.1	4104.9	3997.4	3947.9	3951.3	3965.0	4000.8	4043.5	4094.7	4198.8
25°	4280.7	4291.0	4198.8	4055.4	3999.1	4009.4	4021.3	4038.4	4079.3	4139.1	4279.1
27.5°	4465.1	4473.6	4352.5	4157.8	4072.5	4089.5	4106.7	4094.7	4113.4	4164.7	4343.8
30°	4724.5	4729.7	4576.0	4318.3	4197.1	4205.7	4209.1	4159.6	4123.7	4164.7	4390.0
32.5°	5031.7	5030.0	4847.4	4512.9	4338.7	4330.2	4301.2	4203.9	4120.3	4156.2	4431.0
35°	5507.9	5489.2	5253.6	4785.9	4499.2	4446.2	4378.0	4253.4	4137.3	4147.6	4466.7
37.5°	6296.5	6238.5	5912.5	5233.1	4738.2	4603.3	4502.6	4333.6	4174.9	4144.2	4509.5
40°	7185.8	7112.4	6753.9	5845.9	5096.6	4879.8	4717.7	4448.0	4236.3	4159.6	4572.6
42.5°	8240.6	8136.4	7750.7	6567.9	5550.6	5236.5	4992.5	4593.1	4326.8	4209.1	4657.9
45°	9536.1	9397.8	8851.6	7382.0	6122.4	5704.2	5378.2	4813.3	4465.1	4304.6	4785.9
47.5°	10845.2	10879.3	10102.7	8314.0	6808.6	6281.1	5861.3	5144.4	4666.5	4458.2	4992.5
50°	12236.2	12260.1	11347.1	9346.6	7586.8	6933.1	6404.0	5514.8	4946.4	4676.8	5301.4
52.5°	13321.8	13325.2	12476.9	10427.0	8397.6	7650.0	6989.5	5938.0	5270.7	4966.8	5712.7
55°	14001.1	13992.6	13268.9	11449.5	9329.6	8402.7	7638.1	6419.4	5666.7	5308.3	6230.0
57.5°	14494.4	14468.8	13815.1	12328.5	10322.9	9292.0	8372.0	6965.6	6134.3	5714.5	6911.0
60°	14682.2	14666.8	14185.5	13088.0	11367.5	10275.1	9218.6	7576.6	6665.2	6194.1	7786.5
62.5°	14753.8	14782.9	14549.1	13823.7	12485.4	11364.1	10148.8	8307.1	7262.5	6736.9	8709.9
65°	15006.5	15059.4	15011.5	14786.2	13748.5	12639.1	11382.8	9175.9	7914.5	7318.9	9674.4
67.5°	15506.6	15559.5	15580.0	15938.4	15291.5	14228.1	12922.4	10258.1	8677.5	7923.1	10399.8
70°	15494.6	15479.2	15841.1	16855.0	17223.6	16428.3	14997.9	11589.4	9587.2	8424.9	10491.9
72.5°	14103.6	13980.7	14835.7	16844.7	18831.5	18725.6	17532.5	13306.4	10372.4	8486.4	9104.3
75°	10580.7	10253.0	11763.5	15180.6	19099.4	20029.6	19143.8	14371.5	10186.3	7498.1	6335.7
77.5°	4524.8	4195.4	5975.6	11237.8	17093.9	18724.0	17665.7	12538.4	8131.3	4958.3	3111.6
80°	1184.5	1182.8	1805.8	5094.9	11625.2	13827.0	12130.5	8097.2	4646.0	1771.7	858.5
82.5°	489.8	478.0	664.0	1981.6	5680.3	7759.2	6332.3	3611.7	1677.8	479.6	285.1
85°	182.7	180.9	322.6	684.4	2003.8	3200.4	2316.2	923.4	418.2	233.8	128.0
87.5°	51.2	49.5	70.0	237.3	488.1	740.8	396.0	151.9	117.8	92.1	37.5
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°	3680.0	3680.0	3680.0	3680.0	3680.0	3680.0	3680.0	3680.0	3680.0	3680.0	3680.0
2.5°	3691.8	3700.5	3715.7	3727.7	3743.1	3760.1	3784.1	3799.4	3814.7	3825.0	3818.2
5°	3707.2	3726.0	3765.2	3804.5	3850.6	3893.3	3942.8	3978.6	4007.6	4016.2	4019.5
7.5°	3741.4	3772.1	3838.6	3905.2	3978.6	4048.6	4120.3	4181.7	4231.2	4250.1	4251.7
10°	3801.1	3842.1	3936.0	4029.8	4127.2	4234.7	4326.8	4415.6	4485.5	4514.6	4516.3
12.5°	3876.2	3927.4	4050.3	4180.1	4314.8	4463.4	4582.9	4692.0	4779.2	4818.4	4818.4
15°	3973.5	4040.0	4197.1	4371.2	4569.1	4775.7	4927.6	5048.8	5146.1	5193.9	5190.5
17.5°	4079.3	4168.1	4366.1	4628.9	4912.2	5183.6	5361.2	5449.9	5550.6	5596.7	5595.0
20°	4181.7	4291.0	4574.3	4956.6	5333.9	5622.3	5765.7	5789.6	5796.4	5801.5	5815.1
22.5°	4287.6	4434.4	4835.4	5369.7	5774.2	5973.9	5994.4	5892.0	5748.6	5682.1	5700.8
25°	4403.6	4598.3	5176.9	5825.4	6153.2	6177.1	6020.0	5770.7	5499.4	5374.8	5393.5
27.5°	4516.3	4787.7	5586.5	6260.7	6426.2	6216.3	5878.4	5525.1	5197.3	5065.9	5081.2
30°	4628.9	5004.5	6038.8	6641.3	6550.8	6118.9	5654.7	5260.5	4931.1	4792.8	4808.2
32.5°	4743.3	5257.0	6559.4	6916.1	6528.6	5912.5	5376.5	4963.5	4673.3	4528.2	4547.0
35°	4873.1	5567.7	7052.6	7066.2	6380.1	5608.7	5009.6	4608.4	4355.8	4239.8	4265.3
37.5°	5042.0	5961.9	7487.8	7103.9	6120.7	5163.1	4553.9	4188.6	3980.3	3927.4	3965.0
40°	5251.9	6436.5	7820.7	7044.1	5736.6	4622.1	4055.4	3763.6	3645.8	3657.7	3698.7
42.5°	5525.1	6967.3	8054.6	6890.5	5202.4	4063.9	3618.5	3488.8	3545.1	3592.8	3637.2
45°	5880.0	7518.6	8199.6	6629.3	4598.3	3591.2	3360.8	3391.5	3434.2	3439.3	3473.4
47.5°	6334.1	8076.7	8295.2	6235.1	3982.0	3258.4	3196.9	3203.7	3195.2	3159.4	3186.6
50°	6900.7	8619.5	8380.5	5712.7	3458.0	3050.1	2968.2	2944.3	2826.5	2710.4	2725.8
52.5°	7545.9	9117.9	8416.4	5064.2	3050.1	2876.0	2742.9	2592.6	2372.5	2336.7	2348.6
55°	8262.7	9578.7	8324.2	4267.1	2707.0	2652.4	2451.0	2270.1	2246.2	2215.4	2220.6
57.5°	9119.6	10075.4	8136.4	3377.8	2355.4	2391.2	2194.9	2215.4	2172.8	2125.0	2116.4
60°	10056.7	10589.2	7807.0	2567.1	1991.9	2065.3	2128.4	2126.7	2114.8	2075.5	2061.9
62.5°	10899.8	10927.1	7158.5	1966.3	1672.7	1812.6	1985.0	1983.4	1973.1	1950.9	1942.4
65°	11401.6	10876.0	6076.3	1548.1	1409.9	1604.4	1790.5	1804.1	1805.8	1804.1	1804.1
67.5°	11312.9	10276.9	4591.4	1232.4	1193.1	1392.8	1597.6	1616.3	1630.1	1633.4	1636.8
70°	10309.2	8960.9	2993.8	983.2	1000.2	1206.7	1415.0	1433.8	1445.7	1459.3	1466.2
72.5°	8035.8	6588.4	1713.7	795.4	831.3	1046.3	1234.0	1256.2	1263.0	1288.6	1298.9
75°	4896.9	3874.5	925.1	626.4	682.8	894.4	1054.8	1080.5	1092.3	1123.1	1126.5
77.5°	2328.1	1677.8	527.4	488.1	549.6	730.5	890.9	919.9	887.5	904.7	890.9
80°	786.9	623.0	332.8	372.1	419.8	570.1	713.5	742.5	674.2	670.8	664.0
82.5°	274.8	252.6	211.7	247.5	271.4	408.0	539.4	576.9	501.8	500.1	476.2
85°	107.5	102.4	117.8	134.9	162.2	250.9	355.1	373.8	308.9	249.2	245.8
87.5°	22.1	23.9	29.0	30.7	49.5	87.0	128.0	157.0	124.6	105.8	97.3
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)