

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: P969879

Luminaire Tested: **NAV-SB6A-740-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-740-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29155.1 lumens
Efficiency: N/A
Efficacy: 170.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

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

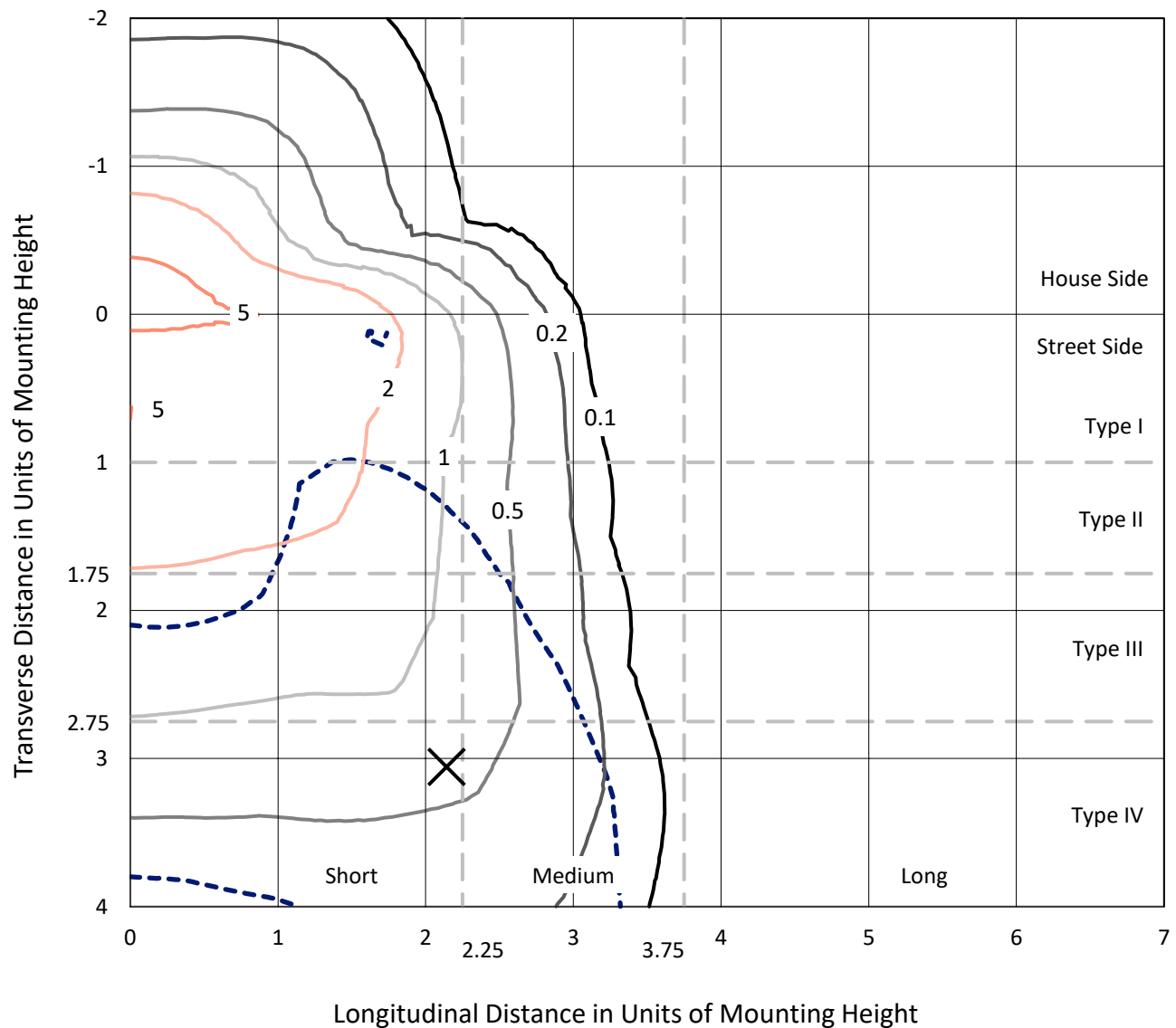


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Iso-Footcandle Lines of Horizontal Illumination

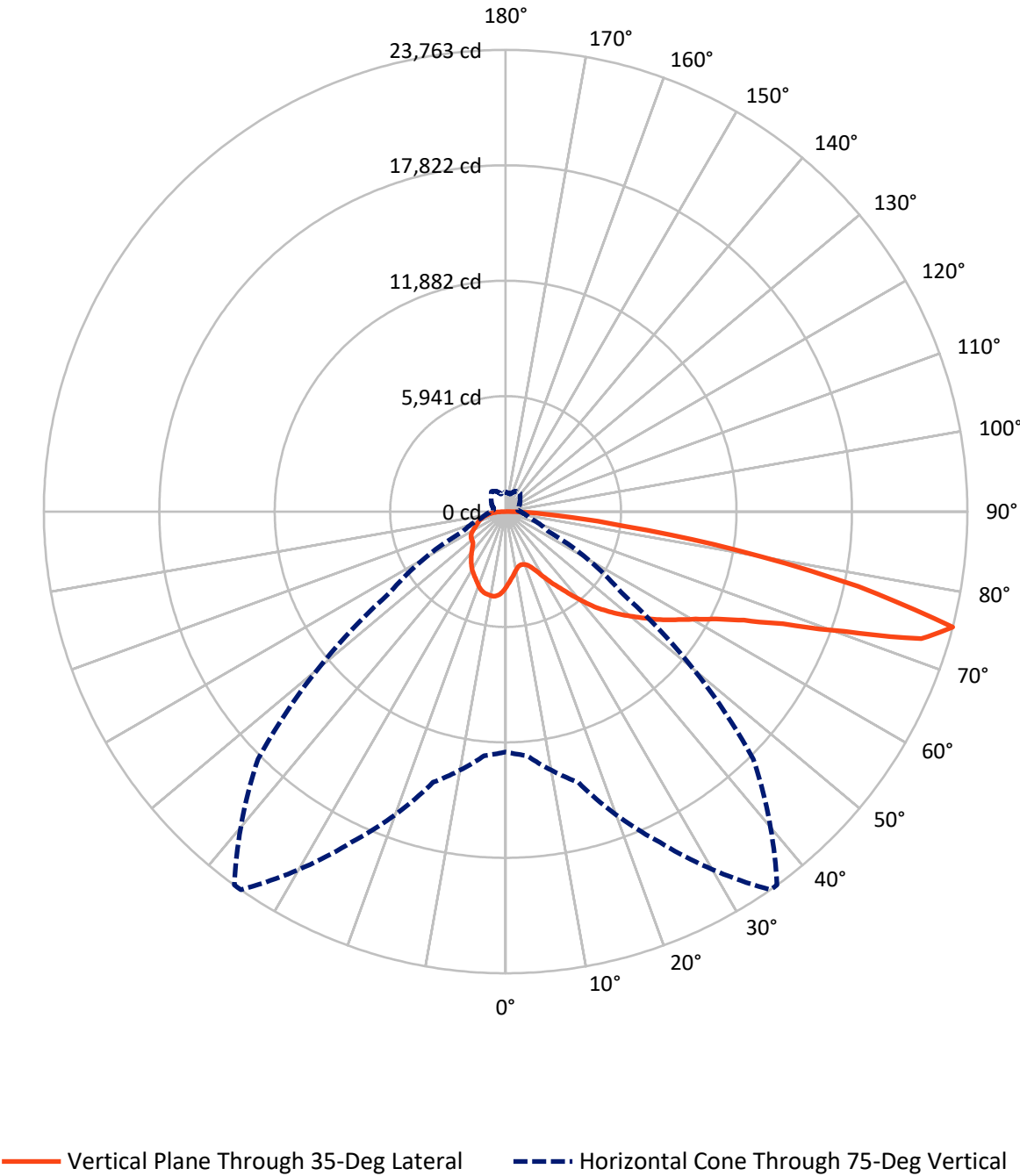
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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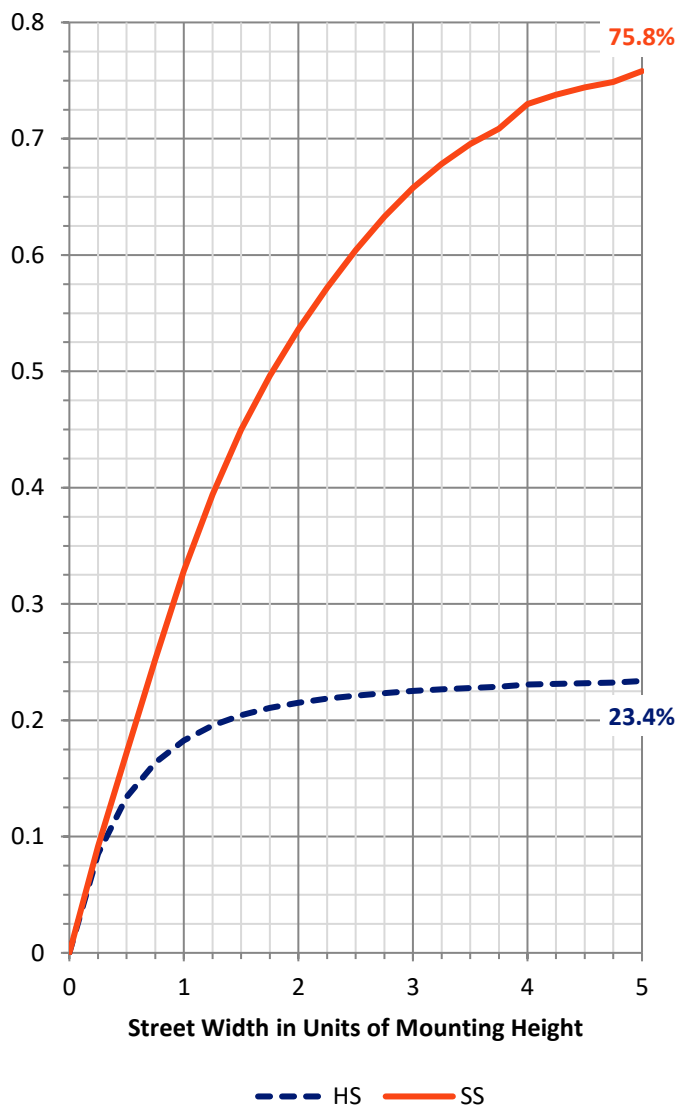
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6938.2	0.0	6938.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	22216.9	0.0	22216.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	29155.1	0.0	29155.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.8	1.3
10°-20°	1061.0	3.6
20°-30°	1781.7	6.1
30°-40°	2769.1	9.5
40°-50°	4110.0	14.1
50°-60°	5674.1	19.5
60°-70°	6884.0	23.6
70°-80°	5689.1	19.5
80°-90°	818.3	2.8
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°	29155.1	100.0
0°-180°	29155.1	100.0

Coefficient of Utilization



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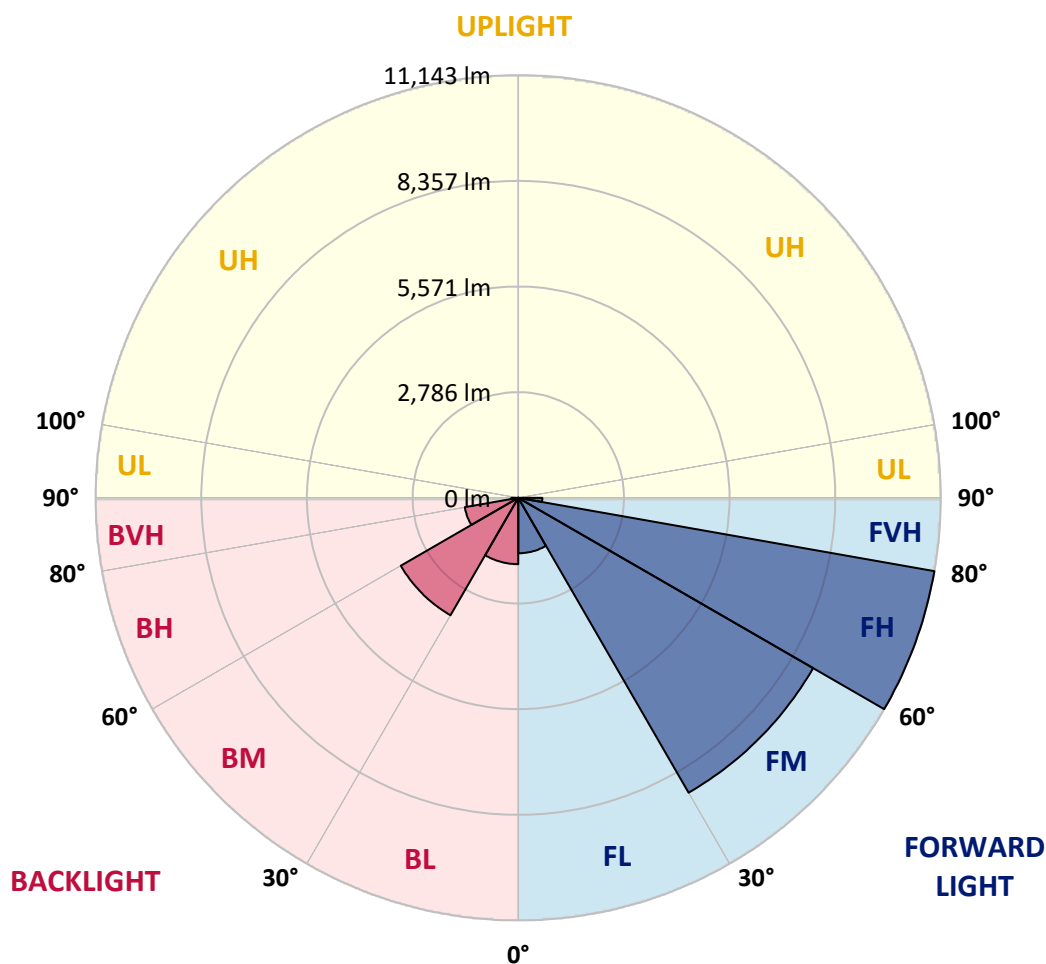
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1462.1	5.0			
FM	(30°-60°)	8978.2	30.8			
FH	(60°-80°)	11142.6	38.2			G4/12000
FVH	(80°-90°)	634.0	2.2			G4/750
BL	(0°-30°)	1748.5	6.0	B3/2500		
BM	(30°-60°)	3575.0	12.3	B3/5000		
BH	(60°-80°)	1430.4	4.9	B3/2500		G3/2500
BVH	(80°-90°)	184.2	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3885.2	3885.2	3885.2	3885.2	3885.2	3885.2	3885.2	3885.2	3885.2	3885.2	3885.2
2.5°	3582.5	3604.6	3614.0	3609.3	3632.9	3629.8	3662.8	3703.8	3760.6	3815.8	3896.1
5°	3306.6	3330.3	3350.8	3369.7	3415.4	3429.6	3481.6	3560.4	3664.5	3770.1	3902.5
7.5°	3049.8	3070.3	3101.8	3136.5	3213.7	3227.8	3314.5	3437.5	3582.5	3736.9	3919.8
10°	2840.2	2860.7	2893.8	2933.1	3029.3	3046.6	3157.0	3320.9	3510.0	3705.5	3938.7
12.5°	2750.3	2756.6	2775.5	2815.0	2898.5	2909.5	3030.8	3218.4	3439.1	3681.8	3967.1
15°	2745.6	2758.2	2759.8	2780.2	2849.6	2854.3	2966.2	3152.2	3394.9	3677.1	4009.6
17.5°	2792.9	2802.4	2788.1	2800.7	2859.0	2866.9	2955.2	3120.7	3380.8	3697.6	4082.2
20°	2919.0	2926.9	2884.2	2866.9	2909.5	2915.8	3002.5	3141.2	3394.9	3740.1	4181.4
22.5°	3186.9	3191.6	3087.6	3016.7	3019.9	3023.0	3098.7	3224.8	3450.2	3817.3	4307.6
25°	3604.6	3601.4	3435.9	3298.8	3220.0	3202.6	3253.0	3360.3	3543.1	3919.8	4469.8
27.5°	4093.1	4069.6	3904.0	3699.1	3527.3	3502.1	3491.0	3536.8	3675.4	4055.3	4668.5
30°	4644.8	4622.8	4444.6	4176.7	3938.7	3897.8	3793.7	3770.1	3872.6	4239.7	4944.3
32.5°	5250.0	5235.8	5023.1	4698.4	4380.0	4332.8	4157.8	4094.8	4175.1	4518.7	5328.9
35°	5757.5	5744.9	5568.4	5234.3	4845.0	4786.6	4608.5	4537.7	4578.6	4876.4	5831.6
37.5°	6216.2	6209.9	6058.6	5795.3	5393.4	5322.5	5122.3	5098.8	5090.9	5347.7	6441.6
40°	6641.7	6626.0	6468.4	6329.7	6031.8	5967.1	5790.6	5770.1	5710.3	5927.8	7132.0
42.5°	7113.0	7072.0	6843.5	6778.8	6698.5	6644.9	6539.3	6542.5	6410.0	6581.8	7863.2
45°	7497.6	7473.9	7239.1	7201.2	7288.0	7265.9	7357.2	7380.9	7124.1	7267.5	8622.9
47.5°	7910.5	7888.4	7689.9	7663.0	7897.9	7904.2	8227.3	8235.2	7820.6	7979.8	9384.2
50°	8419.6	8388.1	8191.1	8224.2	8487.4	8511.0	9102.0	9048.5	8462.1	8703.3	10139.1
52.5°	8755.3	8774.2	8731.7	8785.3	9144.6	9166.7	9962.6	9825.4	9097.3	9417.3	10879.9
55°	9002.8	9040.6	9172.9	9295.9	9838.1	9860.2	10774.3	10564.7	9623.7	10079.2	11576.6
57.5°	9321.1	9267.5	9515.0	9754.5	10496.9	10555.2	11563.9	11277.0	10090.3	10649.7	12054.1
60°	9778.2	9740.4	9932.7	10287.3	11234.5	11327.5	12399.2	11918.6	10432.2	11102.1	12147.1
62.5°	10705.0	10610.4	10640.3	10954.0	12164.4	12287.4	13341.8	12478.0	10602.5	11278.7	11649.0
65°	12090.4	11928.0	11776.7	11994.2	13474.1	13595.5	14405.7	12917.8	10539.5	10936.6	10326.7
67.5°	13835.1	13674.3	13488.4	13693.3	15403.3	15499.4	15718.6	13165.3	10042.9	9619.0	7989.3
70°	15274.1	15214.2	15436.4	16279.7	18484.6	18487.8	17401.8	12960.4	8682.8	6819.8	4622.8
72.5°	15083.4	15047.1	16218.2	18825.0	22368.2	22284.6	18995.3	11409.5	5849.0	3076.5	1732.1
75°	12374.0	12608.9	14423.0	18779.3	23763.0	23752.0	18019.7	7253.3	2419.3	1275.1	895.2
77.5°	6635.4	7007.4	9363.7	13865.1	18550.9	18829.8	12668.8	2537.5	1038.6	816.4	619.4
80°	2164.0	2488.7	3732.2	7059.4	12054.1	12002.1	5429.7	996.1	710.8	578.4	428.7
82.5°	918.9	956.7	1667.6	3333.5	6186.3	6090.1	1729.0	572.2	499.6	395.6	264.8
85°	359.4	401.9	736.1	1541.4	2679.4	2621.0	624.1	283.7	319.9	258.5	157.6
87.5°	118.2	143.4	263.2	528.0	833.7	803.8	152.9	97.7	138.7	118.2	56.8
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°	3885.2	3885.2	3885.2	3885.2	3885.2	3885.2	3885.2	3885.2	3885.2	3885.2	3885.2
2.5°	3918.2	3943.4	3973.4	4017.5	4055.3	4086.9	4120.0	4140.5	4148.3	4172.0	4170.4
5°	3946.6	4001.7	4075.8	4148.3	4219.2	4261.8	4299.7	4318.5	4335.9	4348.5	4351.6
7.5°	3993.9	4064.7	4181.4	4276.0	4335.9	4370.6	4395.8	4389.5	4395.8	4398.9	4403.6
10°	4034.8	4134.1	4272.8	4362.7	4408.4	4410.0	4403.6	4381.6	4370.6	4372.1	4375.3
12.5°	4083.7	4194.0	4343.7	4419.4	4432.0	4397.4	4370.6	4332.8	4318.5	4312.3	4309.1
15°	4149.9	4276.0	4421.0	4449.3	4417.9	4373.7	4328.0	4266.6	4235.0	4209.8	4217.7
17.5°	4230.3	4369.0	4480.9	4460.4	4392.6	4320.2	4246.1	4153.1	4088.4	4061.7	4063.2
20°	4342.2	4466.7	4526.6	4436.7	4334.3	4224.0	4097.8	3984.4	3924.5	3897.8	3894.6
22.5°	4477.7	4597.5	4570.7	4395.8	4250.8	4074.3	3916.6	3833.1	3803.2	3784.2	3787.4
25°	4640.1	4742.5	4602.2	4335.9	4113.6	3875.6	3754.3	3727.5	3713.3	3699.1	3699.1
27.5°	4851.2	4906.5	4625.9	4247.6	3899.3	3664.5	3620.3	3625.0	3620.3	3596.7	3601.4
30°	5130.2	5119.3	4648.0	4104.2	3653.4	3473.7	3476.9	3497.4	3500.6	3484.8	3492.7
32.5°	5497.5	5385.6	4659.0	3918.2	3418.6	3306.6	3309.8	3331.9	3347.6	3320.9	3333.5
35°	5941.9	5696.0	4641.6	3685.0	3237.4	3147.5	3123.9	3130.1	3134.9	3109.6	3127.0
37.5°	6460.5	6044.4	4564.4	3426.5	3087.6	2991.5	2941.0	2898.5	2873.3	2849.6	2865.4
40°	7029.4	6424.2	4422.6	3174.3	2920.5	2825.9	2750.3	2669.9	2584.8	2553.3	2567.5
42.5°	7625.2	6815.1	4250.8	2933.1	2728.2	2651.1	2570.6	2454.1	2326.3	2261.8	2269.6
45°	8243.0	7215.5	4082.2	2695.1	2531.2	2498.1	2405.2	2264.8	2126.2	2044.3	2037.9
47.5°	8848.3	7593.7	3834.6	2455.6	2346.8	2383.1	2310.6	2181.3	2026.8	1897.7	1883.4
50°	9426.7	7948.4	3429.6	2212.9	2197.1	2348.4	2279.1	2093.0	1916.5	1751.1	1736.9
52.5°	10000.4	8235.2	2911.1	1992.2	2116.7	2338.9	2238.1	2033.2	1817.2	1643.9	1624.9
55°	10487.5	8383.4	2411.4	1803.1	2000.1	2258.6	2189.2	1962.3	1677.0	1492.6	1476.8
57.5°	10764.9	8263.6	1995.4	1617.0	1839.4	2126.2	2105.7	1811.0	1509.9	1368.1	1349.1
60°	10645.0	7778.1	1655.0	1454.8	1686.4	1982.8	1960.7	1661.2	1382.2	1248.2	1229.4
62.5°	9984.6	6852.9	1385.4	1312.9	1547.7	1836.2	1815.7	1546.2	1284.5	1155.3	1134.8
65°	8654.4	5574.7	1175.8	1194.7	1407.4	1659.7	1689.6	1450.1	1207.3	1081.2	1060.8
67.5°	6600.8	4038.0	1011.9	1092.2	1270.4	1486.2	1573.0	1380.7	1142.7	1022.8	1004.0
70°	3762.2	2293.2	873.2	992.9	1149.0	1325.5	1483.1	1325.5	1073.4	974.1	961.4
72.5°	1426.4	1052.9	754.9	893.7	1032.4	1189.9	1383.9	1238.8	992.9	918.9	906.3
75°	761.3	641.4	635.2	777.1	898.4	1057.6	1259.3	1153.7	933.1	970.9	1002.4
77.5°	518.5	453.9	531.2	665.1	751.8	911.0	1126.9	1024.5	808.5	805.3	742.3
80°	359.4	321.5	431.8	535.9	581.6	766.0	983.5	879.4	658.8	614.7	587.9
82.5°	216.0	209.6	323.1	400.4	411.3	591.0	814.9	737.6	539.0	469.7	472.8
85°	118.2	124.5	206.4	234.8	239.5	413.0	638.4	570.5	414.5	348.3	351.5
87.5°	33.1	42.5	75.6	93.0	115.0	214.3	379.9	338.9	208.1	145.0	145.0
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)