

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: P969937

Luminaire Tested: **NAV-SB6A-760-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969937
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-SB6A-760-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5700K, 350mA 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: 24559 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - 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

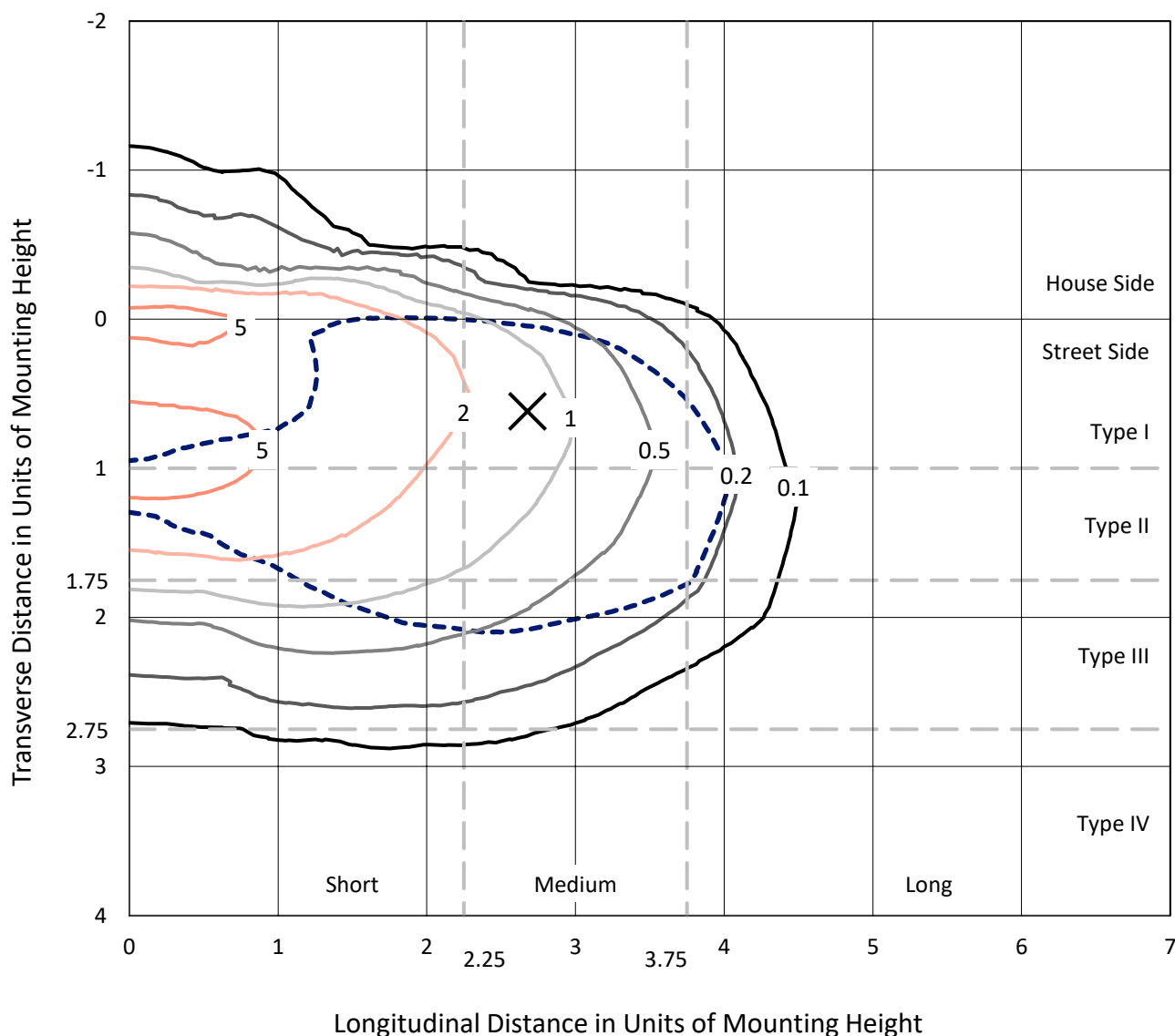


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Iso-Footcandle Lines of Horizontal Illumination

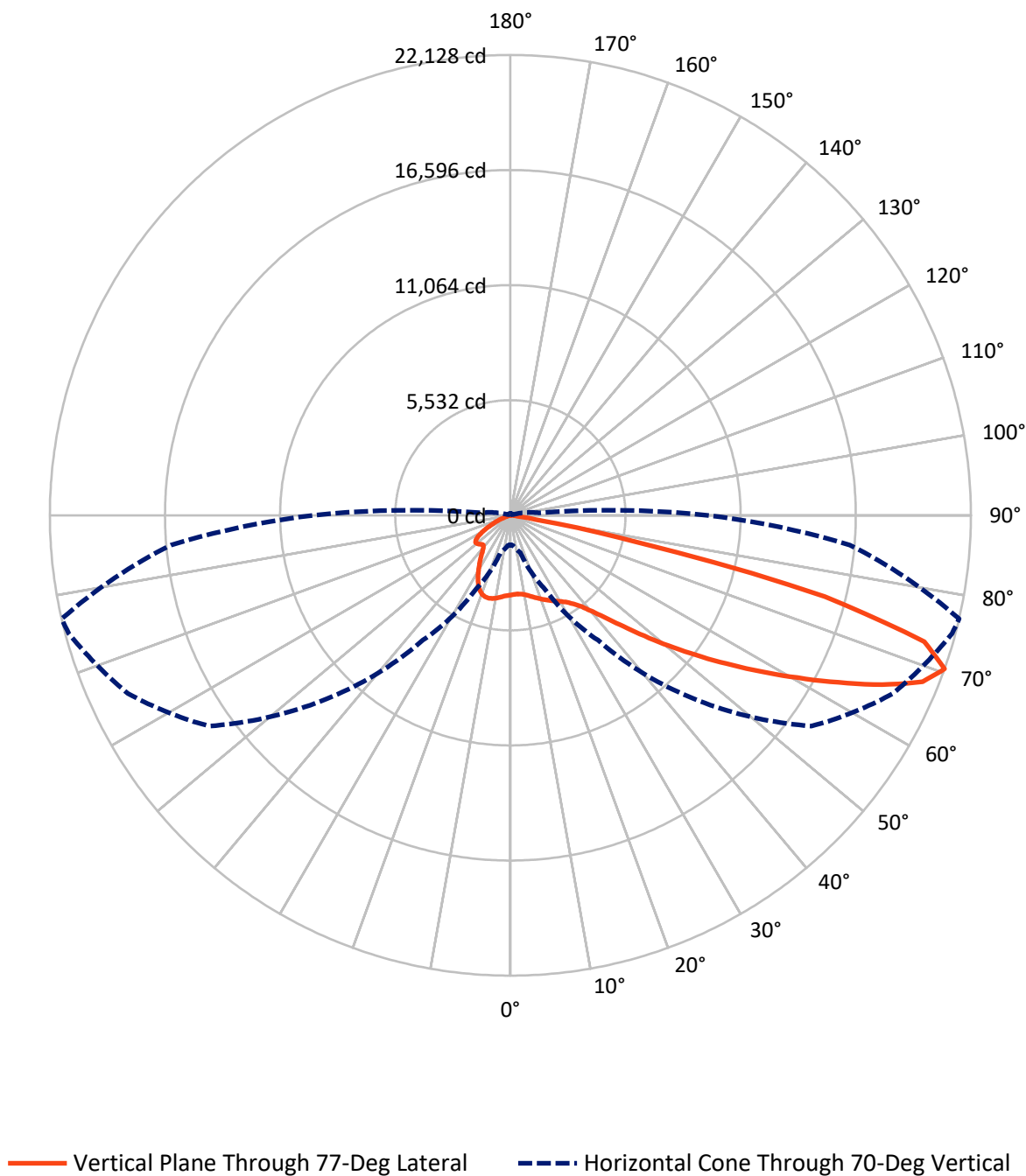
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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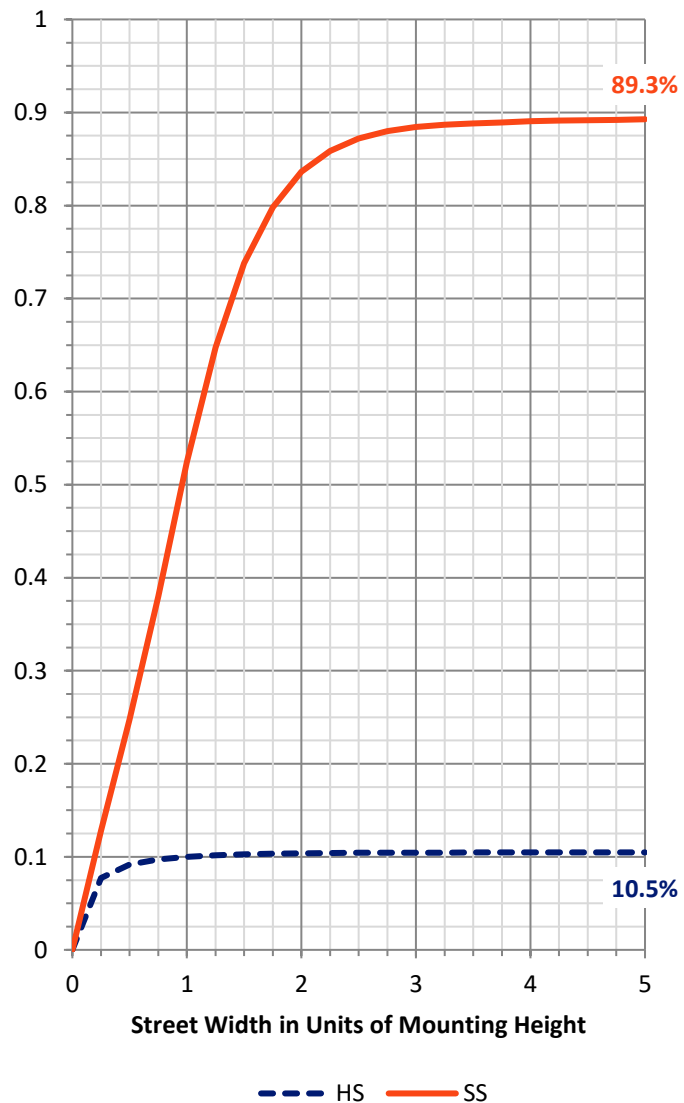
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2588.9	0.0	2588.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	21970.1	0.0	21970.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	24559.0	0.0	24559.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.2	1.3
10°-20°	783.7	3.2
20°-30°	1212.2	4.9
30°-40°	2199.7	9.0
40°-50°	4152.1	16.9
50°-60°	5999.4	24.4
60°-70°	6386.3	26.0
70°-80°	3384.3	13.8
80°-90°	111.1	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°	24559.0	100.0
0°-180°	24559.0	100.0

Coefficient of Utilization



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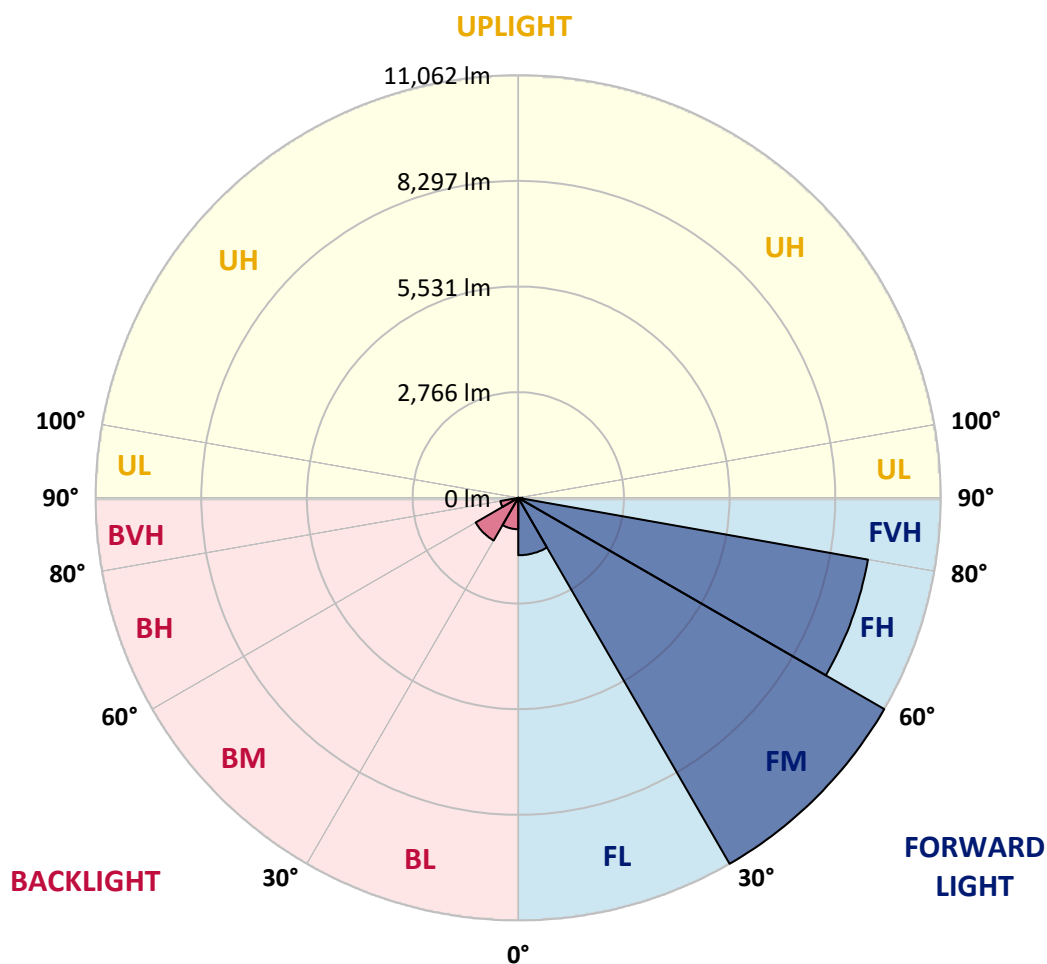
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1503.6	6.1			
FM	(30°-60°)	11062.5	45.0			
FH	(60°-80°)	9295.9	37.9			G4/12000
FVH	(80°-90°)	108.1	0.4			G2/225
BL	(0°-30°)	822.5	3.3	B2/1000		
BM	(30°-60°)	1288.7	5.2	B2/2500		
BH	(60°-80°)	474.6	1.9	B1/500		G1/500
BVH	(80°-90°)	3.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	3830.7	3830.7	3830.7	3830.7	3830.7	3830.7	3830.7	3830.7	3830.7	3830.7	3830.7
2.5°	3596.6	3629.1	3624.5	3646.2	3653.9	3685.0	3716.0	3757.9	3804.4	3802.9	3833.9
5°	3393.4	3426.0	3433.7	3463.2	3500.4	3548.4	3612.1	3695.8	3782.7	3796.6	3858.7
7.5°	3153.0	3187.1	3207.3	3266.3	3334.4	3433.7	3537.7	3660.2	3804.4	3824.6	3944.0
10°	2912.6	2943.6	2970.0	3053.8	3162.3	3309.6	3478.7	3655.5	3849.4	3878.8	4047.9
12.5°	2763.7	2793.2	2822.6	2895.5	3030.5	3210.4	3439.9	3677.2	3923.8	3965.7	4189.1
15°	2711.0	2737.4	2760.6	2825.7	2951.4	3156.1	3432.2	3722.2	4018.4	4074.3	4359.6
17.5°	2718.7	2732.8	2748.2	2797.8	2920.3	3131.3	3446.2	3799.8	4130.1	4179.7	4530.2
20°	2763.7	2771.5	2773.0	2807.2	2915.7	3128.2	3474.0	3874.2	4235.5	4302.2	4699.3
22.5°	2821.1	2824.2	2821.1	2844.4	2945.2	3151.5	3511.2	3964.2	4353.4	4415.5	4869.9
25°	3089.5	3030.5	2956.0	2911.1	2994.8	3196.5	3567.1	4085.1	4482.1	4542.6	5035.8
27.5°	3922.3	3753.2	3486.4	3187.1	3097.1	3261.5	3644.7	4207.6	4612.4	4666.7	5214.2
30°	5274.6	5052.8	4600.0	3925.3	3426.0	3398.1	3745.5	4330.1	4750.5	4809.4	5404.9
32.5°	6630.2	6575.9	6053.2	5119.6	4165.8	3702.0	3912.9	4496.1	4933.4	4980.0	5662.4
35°	8001.2	7891.1	7463.0	6540.2	5305.7	4320.9	4192.1	4713.3	5173.9	5226.6	6037.8
37.5°	9051.2	8984.4	8719.3	7959.3	6658.1	5276.2	4669.8	5049.8	5522.8	5581.7	6518.5
40°	9978.6	9947.5	9857.6	9356.7	8170.2	6526.3	5412.7	5570.9	6006.7	6076.5	7107.9
42.5°	10707.6	10780.4	10831.6	10692.0	9728.9	7953.1	6411.5	6302.9	6681.4	6752.7	7858.5
45°	11453.6	11478.4	11684.6	11886.2	11276.7	9445.1	7537.4	7160.5	7520.4	7608.8	8758.0
47.5°	11932.7	12032.0	12394.9	12750.1	12577.9	10924.7	8747.1	8173.4	8492.8	8658.8	9766.1
50°	11968.4	12156.1	12655.5	13274.3	13525.5	12332.9	10062.3	9327.2	9666.9	9849.8	10842.4
52.5°	11374.4	11665.9	12439.9	13345.6	14037.4	13525.5	11422.5	10481.0	10916.9	11155.7	11959.1
55°	8720.8	9102.3	11628.7	12957.8	14057.5	14429.7	12747.0	11683.1	12309.6	12579.5	13165.7
57.5°	7597.9	7790.2	9142.7	12284.8	13683.7	14794.1	13944.3	12827.7	13824.9	14159.9	14305.6
60°	6321.5	6574.4	7667.7	11183.7	13176.6	14829.8	15002.0	14304.1	15467.2	15844.1	15350.9
62.5°	4296.1	4570.6	5657.7	9291.5	12483.3	14812.8	15868.9	15824.0	17292.7	17697.4	16236.5
65°	2661.4	2833.5	3550.1	7587.0	11514.0	14831.4	16776.3	17669.6	19219.0	19630.0	16922.0
67.5°	2103.0	2182.1	2555.9	5825.3	9843.7	14412.6	17682.0	19405.1	21032.0	21357.6	17131.4
70°	1412.9	1460.9	1859.6	3905.2	7323.4	12480.2	17665.0	20276.7	21965.6	22128.4	16368.3
72.5°	744.5	781.7	1087.2	1808.4	4423.2	8871.3	14890.4	19234.4	21036.6	20791.6	13990.8
75°	372.2	434.3	732.1	918.1	1889.0	4947.5	9246.5	15164.9	16557.5	15608.4	8976.7
77.5°	282.3	341.2	604.9	604.9	657.5	1665.7	3916.0	8271.0	7629.0	6352.5	2635.0
80°	179.9	232.7	528.9	457.6	274.5	423.4	1020.5	2317.1	1620.7	1233.0	479.2
82.5°	105.5	152.0	440.4	302.5	153.5	156.6	288.4	493.2	420.2	327.3	147.3
85°	41.9	99.2	302.5	119.4	60.5	38.7	86.8	105.5	86.8	65.1	37.2
87.5°	0.0	23.3	52.7	0.0	4.6	3.1	6.3	7.8	7.8	6.3	12.4
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°	3830.7	3830.7	3830.7	3830.7	3830.7	3830.7	3830.7	3830.7	3830.7	3830.7	3830.7
2.5°	3847.8	3850.9	3860.3	3861.8	3840.1	3812.2	3801.3	3796.6	3778.0	3776.5	3779.6
5°	3894.4	3908.3	3894.4	3854.0	3757.9	3623.0	3520.6	3436.8	3360.9	3337.6	3323.6
7.5°	3987.4	4001.4	3959.5	3801.3	3559.3	3291.1	3049.1	2878.5	2725.0	2667.6	2644.3
10°	4120.8	4139.4	4007.5	3688.1	3260.0	2828.9	2419.4	2131.0	1906.1	1814.6	1775.8
12.5°	4288.3	4296.1	4033.9	3516.0	2870.7	2255.0	1675.0	1366.3	1166.2	1091.8	1068.6
15°	4472.8	4462.0	4037.1	3281.7	2340.3	1594.4	1093.4	898.0	817.3	792.5	792.5
17.5°	4666.7	4621.7	3975.0	2943.6	1758.7	1090.3	811.1	764.6	750.6	744.5	742.9
20°	4857.5	4756.6	3861.8	2501.6	1262.5	814.3	736.7	722.7	714.9	711.9	708.8
22.5°	5031.2	4859.0	3668.0	1988.3	916.6	719.7	696.4	684.0	670.0	663.8	662.3
25°	5200.2	4918.0	3394.9	1509.0	733.6	673.1	654.5	631.2	612.6	604.9	601.8
27.5°	5364.6	4955.2	3053.8	1116.6	654.5	629.7	595.5	563.0	549.0	545.9	542.8
30°	5539.9	4967.6	2666.0	832.8	606.4	575.4	525.7	488.5	480.8	482.4	482.4
32.5°	5753.9	4986.2	2275.2	682.4	566.1	510.2	451.3	412.6	406.3	412.6	411.0
35°	6009.8	5023.4	1898.3	628.1	530.4	443.5	380.0	347.4	341.2	345.8	344.3
37.5°	6357.2	5083.9	1546.2	617.3	500.9	387.8	319.5	293.2	293.2	294.7	293.2
40°	6819.3	5245.2	1231.4	609.5	485.4	345.8	269.9	259.0	263.6	266.8	266.8
42.5°	7382.4	5588.0	1019.0	600.2	468.4	327.3	245.1	240.4	248.2	251.2	251.2
45°	8013.6	6022.2	944.5	584.7	452.8	339.7	234.2	228.0	237.3	238.8	240.4
47.5°	8666.5	6447.1	935.2	567.6	437.4	358.2	231.1	217.1	228.0	229.5	231.1
50°	9327.2	6724.7	944.5	541.3	412.6	358.2	232.7	206.2	215.6	220.3	221.8
52.5°	9992.5	6851.9	938.3	483.9	369.1	336.5	232.7	197.0	206.2	209.4	209.4
55°	10637.8	6827.1	843.7	398.6	313.2	297.8	226.4	189.2	195.4	197.0	197.0
57.5°	11148.0	6481.3	668.4	310.2	254.3	248.2	206.2	179.9	184.6	183.0	183.0
60°	11414.7	5721.3	477.6	238.8	200.1	195.4	181.4	167.5	170.6	162.9	161.3
62.5°	11417.9	4716.3	319.5	189.2	159.7	155.1	155.1	150.5	147.3	131.8	127.2
65°	11174.3	3601.2	212.5	150.5	128.7	121.0	130.3	128.7	117.9	96.1	93.1
67.5°	10622.2	2360.5	161.3	117.9	99.2	94.6	103.9	108.5	100.9	80.7	79.1
70°	9487.0	1374.1	133.4	91.5	74.4	69.8	83.7	93.1	83.7	65.1	62.0
72.5°	7880.2	741.4	108.5	68.3	51.1	46.5	66.7	76.0	66.7	48.1	46.5
75°	5113.4	397.1	83.7	45.0	26.3	29.4	49.6	55.9	46.5	31.1	27.9
77.5°	1716.9	175.3	52.7	21.7	12.4	12.4	29.4	34.1	21.7	10.9	9.3
80°	383.0	72.9	21.7	9.3	4.6	4.6	6.3	6.3	3.1	0.0	0.0
82.5°	125.7	29.4	9.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	48.1	10.9	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.7	1.5	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)