

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: P969986

Luminaire Tested: **NAV-SB6A-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969986
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-SB6A-830-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24834.7 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
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



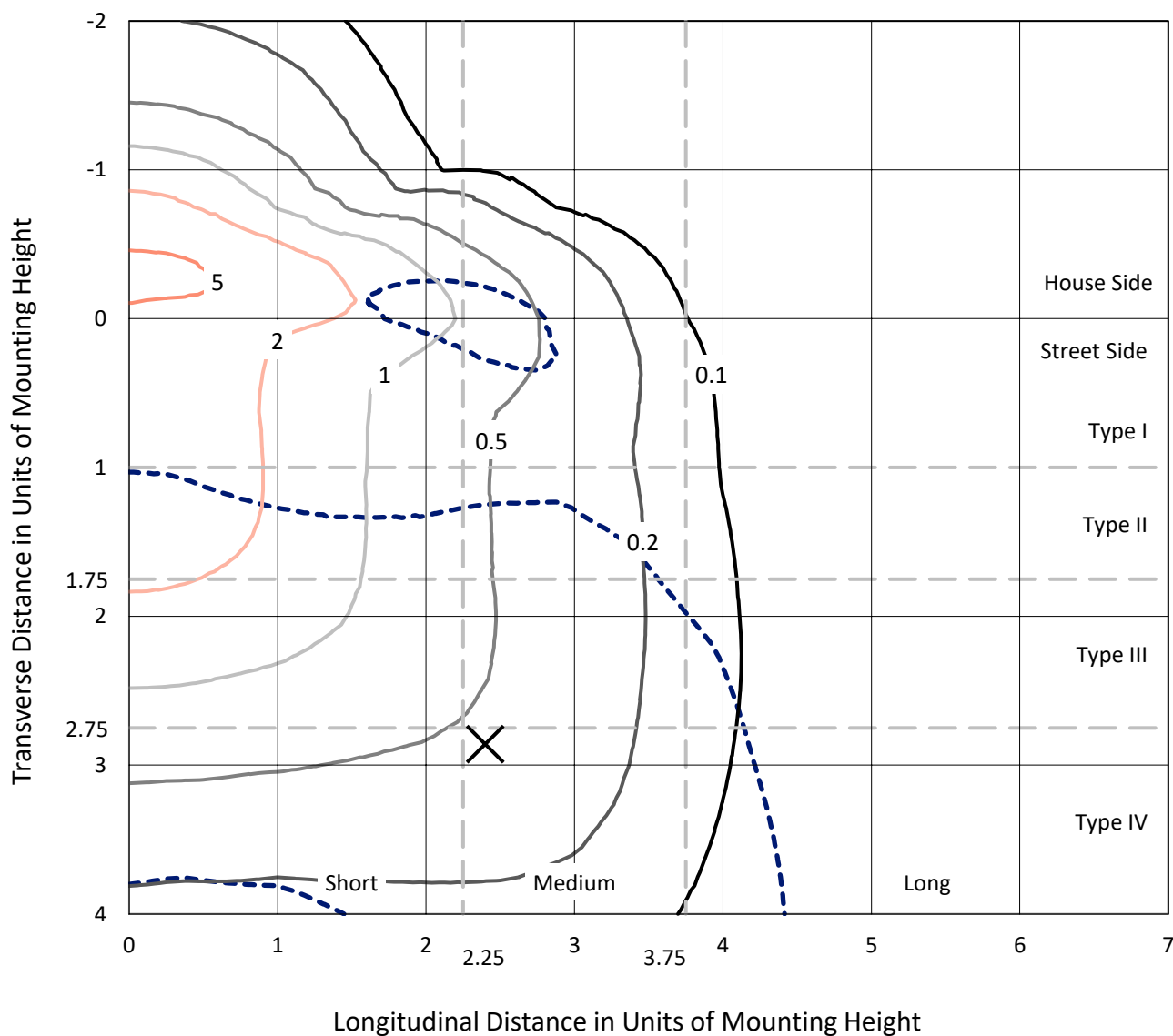
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

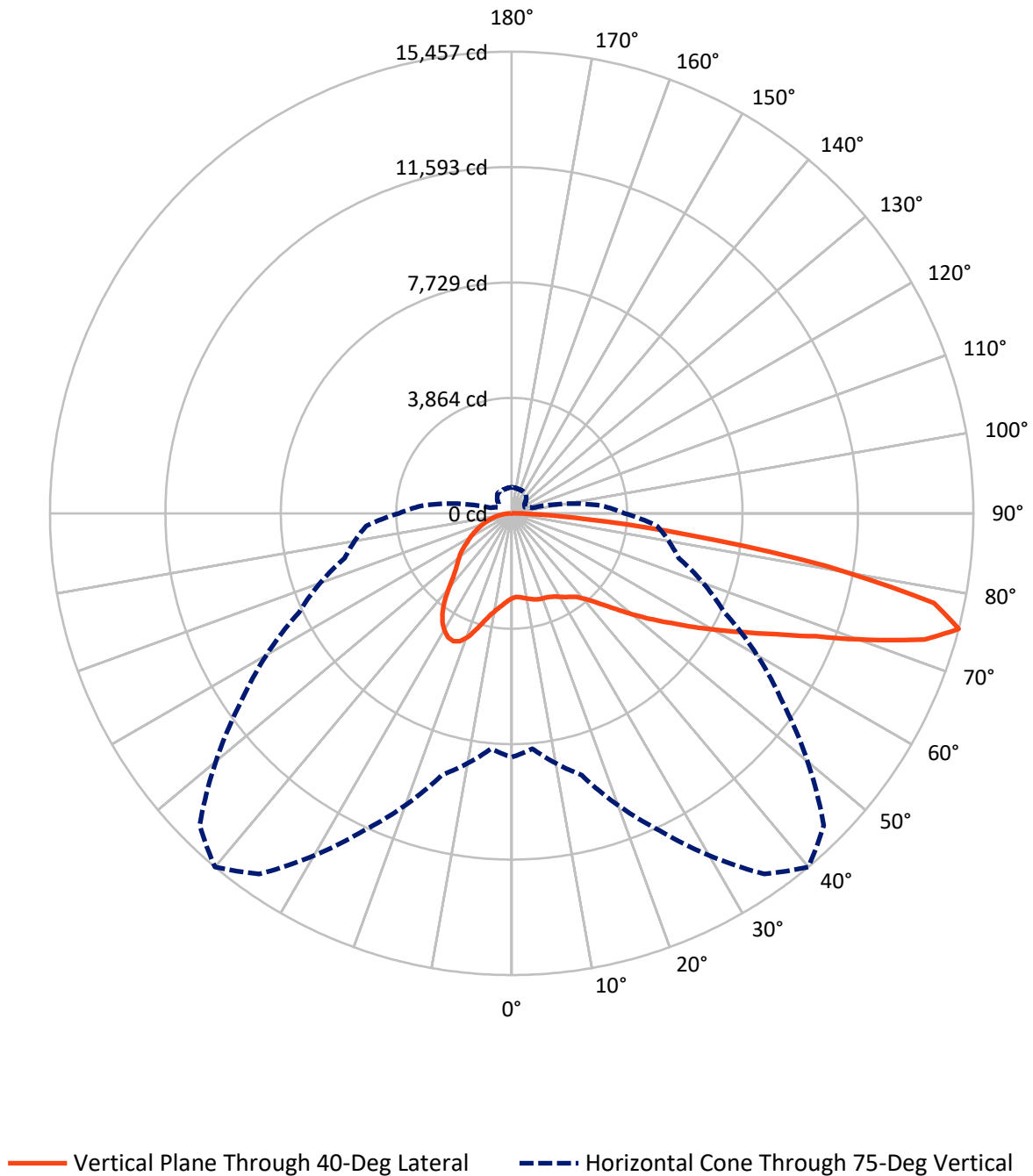
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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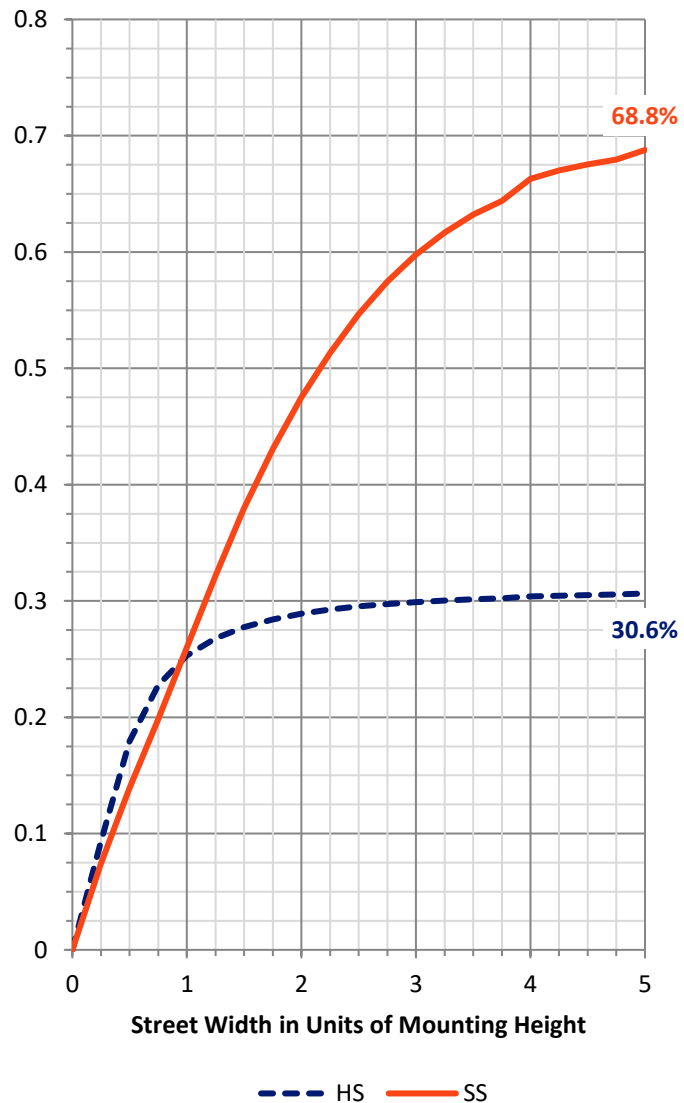
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7694.6	0.0	7694.6
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	17140.1	0.0	17140.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	24834.7	0.0	24834.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.5	1.1
10°-20°	951.8	3.8
20°-30°	1737.8	7.0
30°-40°	2464.7	9.9
40°-50°	3328.1	13.4
50°-60°	4477.2	18.0
60°-70°	5682.6	22.9
70°-80°	5157.3	20.8
80°-90°	751.8	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°	24834.7	100.0
0°-180°	24834.7	100.0

Coefficient of Utilization



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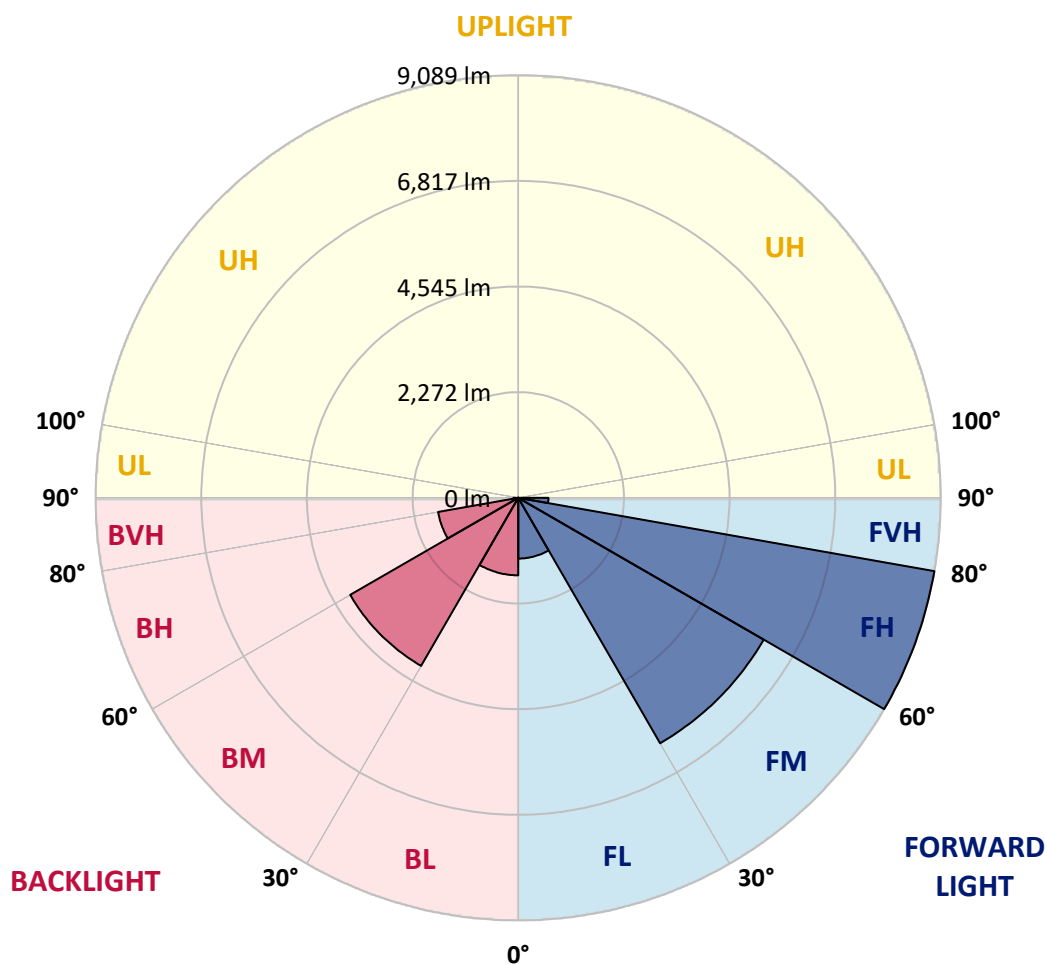
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1306.3	5.3			
FM	(30°-60°)	6096.4	24.5			
FH	(60°-80°)	9089.1	36.6			G4/12000
FVH	(80°-90°)	648.3	2.6			G4/750
BL	(0°-30°)	1666.7	6.7	B3/2500		
BM	(30°-60°)	4173.6	16.8	B3/5000		
BH	(60°-80°)	1750.7	7.0	B3/2500		G3/2500
BVH	(80°-90°)	103.5	0.4			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2839.9	2839.9	2839.9	2839.9	2839.9	2839.9	2839.9	2839.9	2839.9	2839.9	2839.9
2.5°	2796.4	2812.2	2808.3	2803.0	2803.0	2804.3	2803.0	2812.2	2821.4	2830.6	2845.2
5°	2825.4	2841.2	2833.3	2826.7	2821.4	2820.1	2816.2	2814.9	2820.1	2832.0	2851.8
7.5°	2882.0	2897.9	2886.0	2874.1	2863.5	2858.3	2853.1	2845.2	2841.2	2847.8	2875.4
10°	2945.2	2961.0	2946.6	2925.5	2908.3	2901.8	2896.5	2888.7	2883.3	2887.3	2917.6
12.5°	3008.5	3024.3	3004.6	2975.6	2953.1	2949.2	2942.7	2940.0	2938.7	2937.3	2967.7
15°	3067.7	3080.9	3055.9	3021.7	2997.9	2991.4	2984.8	2988.7	2995.4	3003.2	3037.5
17.5°	3113.8	3127.1	3090.2	3045.4	3022.9	3020.4	3016.4	3029.6	3048.0	3067.7	3110.0
20°	3156.0	3169.2	3121.7	3061.2	3034.8	3034.8	3036.2	3063.8	3090.2	3119.2	3177.1
22.5°	3215.3	3225.8	3167.9	3084.8	3046.7	3049.3	3059.8	3087.5	3120.4	3160.0	3240.3
25°	3303.6	3311.5	3240.3	3129.6	3086.2	3094.1	3103.3	3116.5	3148.1	3194.2	3302.2
27.5°	3445.8	3452.4	3358.8	3208.7	3142.9	3156.0	3169.2	3160.0	3174.4	3214.0	3352.3
30°	3646.0	3649.9	3531.4	3332.5	3239.0	3245.6	3248.2	3210.0	3182.3	3214.0	3387.8
32.5°	3883.1	3881.8	3740.8	3482.6	3348.4	3341.7	3319.4	3244.2	3179.8	3207.4	3419.5
35°	4250.6	4236.1	4054.4	3693.4	3472.2	3431.3	3378.6	3282.5	3192.9	3200.8	3447.1
37.5°	4859.1	4814.3	4562.8	4038.5	3656.6	3552.4	3474.7	3344.4	3221.9	3198.2	3480.1
40°	5545.5	5488.8	5212.1	4511.4	3933.1	3765.8	3640.7	3432.6	3269.3	3210.0	3528.8
42.5°	6359.4	6279.0	5981.4	5068.6	4283.6	4041.2	3852.8	3544.6	3339.1	3248.2	3594.7
45°	7359.2	7252.5	6831.0	5696.8	4724.8	4402.1	4150.5	3714.5	3445.8	3322.0	3693.4
47.5°	8369.5	8395.9	7796.5	6416.1	5254.4	4847.3	4523.2	3970.0	3601.2	3440.5	3852.8
50°	9443.0	9461.5	8756.8	7213.0	5855.0	5350.5	4942.1	4255.9	3817.2	3609.1	4091.2
52.5°	10280.8	10283.4	9628.7	8046.8	6480.7	5903.7	5394.0	4582.6	4067.5	3833.1	4408.6
55°	10805.0	10798.4	10240.0	8835.8	7199.8	6484.6	5894.5	4954.0	4373.1	4096.5	4807.8
57.5°	11185.6	11165.9	10661.4	9514.2	7966.4	7170.8	6460.9	5375.5	4734.1	4410.0	5333.4
60°	11330.6	11318.7	10947.2	10100.2	8772.6	7929.5	7114.2	5847.0	5143.7	4780.1	6009.1
62.5°	11385.9	11408.2	11227.8	10668.0	9635.3	8769.9	7832.0	6410.9	5604.7	5199.0	6721.6
65°	11580.9	11621.7	11584.8	11410.9	10610.1	9753.9	8784.5	7081.3	6107.9	5648.2	7465.9
67.5°	11966.8	12007.6	12023.5	12300.0	11800.8	10980.2	9972.5	7916.4	6696.6	6114.4	8025.7
70°	11957.5	11945.7	12225.0	13007.4	13291.9	12678.0	11574.2	8943.7	7398.8	6501.7	8096.8
72.5°	10884.1	10789.2	11449.1	12999.5	14532.7	14451.0	13530.3	10268.9	8004.6	6549.1	7026.0
75°	8165.4	7912.4	9078.1	11715.1	14739.5	15457.3	14773.7	11090.8	7861.0	5786.4	4889.5
77.5°	3491.9	3237.7	4611.5	8672.4	13191.7	14449.7	13633.0	9676.1	6275.2	3826.4	2401.3
80°	914.1	912.9	1393.6	3931.8	8971.4	10670.7	9361.3	6248.8	3585.4	1367.2	662.6
82.5°	378.0	368.8	512.4	1529.3	4383.6	5987.9	4886.8	2787.2	1294.8	370.1	220.0
85°	140.9	139.6	249.0	528.2	1546.4	2469.7	1787.4	712.6	322.7	180.5	98.8
87.5°	39.6	38.2	54.0	183.1	376.7	571.6	305.6	117.3	90.9	71.1	29.0
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°	2839.9	2839.9	2839.9	2839.9	2839.9	2839.9	2839.9	2839.9	2839.9	2839.9	2839.9
2.5°	2849.1	2855.6	2867.5	2876.8	2888.7	2901.8	2920.2	2932.1	2943.9	2951.8	2946.6
5°	2861.0	2875.4	2905.8	2936.0	2971.6	3004.6	3042.7	3070.4	3092.8	3099.4	3102.0
7.5°	2887.3	2911.0	2962.4	3013.7	3070.4	3124.4	3179.8	3227.1	3265.3	3279.8	3281.1
10°	2933.4	2965.0	3037.5	3110.0	3185.0	3268.0	3339.1	3407.6	3461.6	3484.0	3485.3
12.5°	2991.4	3030.9	3125.7	3225.8	3329.9	3444.5	3536.7	3621.0	3688.2	3718.5	3718.5
15°	3066.5	3117.8	3239.0	3373.4	3526.1	3685.5	3802.7	3896.2	3971.4	4008.3	4005.6
17.5°	3148.1	3216.6	3369.4	3572.2	3790.9	4000.4	4137.3	4205.8	4283.6	4319.1	4317.8
20°	3227.1	3311.5	3530.1	3825.2	4116.3	4338.8	4449.5	4468.0	4473.2	4477.2	4487.7
22.5°	3308.8	3422.1	3731.6	4143.9	4456.1	4610.2	4626.0	4547.0	4436.3	4385.0	4399.4
25°	3398.4	3548.6	3995.0	4495.6	4748.5	4767.0	4645.8	4453.4	4244.0	4147.9	4162.3
27.5°	3485.3	3694.7	4311.2	4831.4	4959.3	4797.2	4536.4	4263.8	4010.8	3909.5	3921.3
30°	3572.2	3862.0	4660.3	5125.2	5055.4	4722.2	4363.8	4059.6	3805.4	3698.7	3710.6
32.5°	3660.5	4057.0	5062.0	5337.3	5038.3	4562.8	4149.2	3830.4	3606.5	3494.5	3509.0
35°	3760.6	4296.7	5442.6	5453.2	4923.7	4328.4	3866.0	3556.4	3361.5	3271.9	3291.7
37.5°	3891.0	4601.0	5778.5	5482.2	4723.5	3984.5	3514.3	3232.4	3071.7	3030.9	3059.8
40°	4053.1	4967.2	6035.4	5436.1	4427.1	3567.0	3129.6	2904.4	2813.5	2822.7	2854.4
42.5°	4263.8	5376.8	6215.9	5317.5	4014.8	3136.3	2792.5	2692.4	2735.8	2772.7	2807.0
45°	4537.8	5802.2	6327.8	5116.0	3548.6	2771.4	2593.6	2617.2	2650.2	2654.1	2680.5
47.5°	4888.1	6233.0	6401.6	4811.8	3073.1	2514.5	2467.1	2472.4	2465.8	2438.2	2459.2
50°	5325.5	6651.8	6467.4	4408.6	2668.7	2353.8	2290.6	2272.2	2181.3	2091.7	2103.6
52.5°	5823.3	7036.5	6495.1	3908.1	2353.8	2219.4	2116.7	2000.8	1831.0	1803.3	1812.5
55°	6376.5	7392.1	6424.0	3293.0	2089.1	2046.9	1891.5	1751.8	1733.5	1709.7	1713.7
57.5°	7037.8	7775.4	6279.0	2606.8	1817.7	1845.4	1693.9	1709.7	1676.8	1639.9	1633.3
60°	7761.0	8171.9	6024.8	1981.1	1537.2	1593.8	1642.6	1641.2	1632.0	1601.7	1591.2
62.5°	8411.7	8432.7	5524.3	1517.4	1290.9	1398.8	1531.9	1530.6	1522.6	1505.5	1499.0
65°	8798.9	8393.2	4689.3	1194.7	1088.0	1238.2	1381.7	1392.3	1393.6	1392.3	1392.3
67.5°	8730.4	7930.8	3543.2	951.0	920.8	1074.8	1232.9	1247.4	1257.9	1260.5	1263.2
70°	7955.8	6915.3	2310.4	758.7	771.9	931.2	1091.9	1106.5	1115.7	1126.2	1131.5
72.5°	6201.4	5084.4	1322.5	613.8	641.4	807.5	952.3	969.4	974.8	994.5	1002.3
75°	3779.1	2990.0	713.9	483.4	526.8	690.2	814.1	833.8	843.0	866.7	869.3
77.5°	1796.6	1294.8	407.0	376.7	424.1	563.8	687.6	710.0	684.9	698.1	687.6
80°	607.2	480.8	256.9	287.1	324.0	439.9	550.6	573.0	520.3	517.6	512.4
82.5°	212.1	195.0	163.3	191.0	209.4	314.8	416.3	445.3	387.2	385.9	367.5
85°	83.0	79.0	90.9	104.0	125.2	193.6	274.0	288.4	238.4	192.3	189.7
87.5°	17.1	18.4	22.3	23.7	38.2	67.1	98.8	121.2	96.1	81.7	75.0
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)