

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: P967769

Luminaire Tested: **NAV-SB5A-740-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967769
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5A-740-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24588.7 lumens
Efficiency: N/A
Efficacy: 173.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 141.7
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



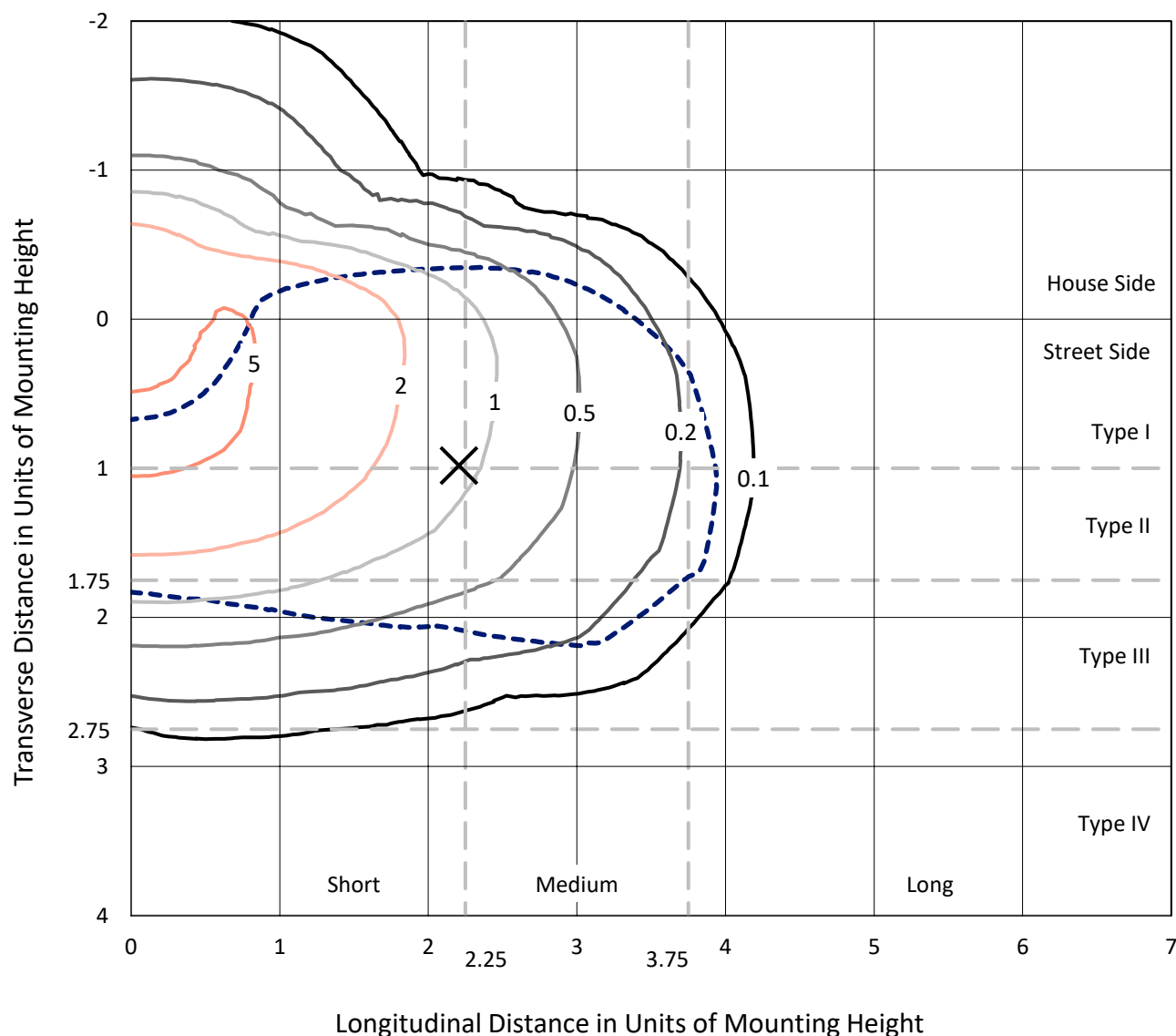
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

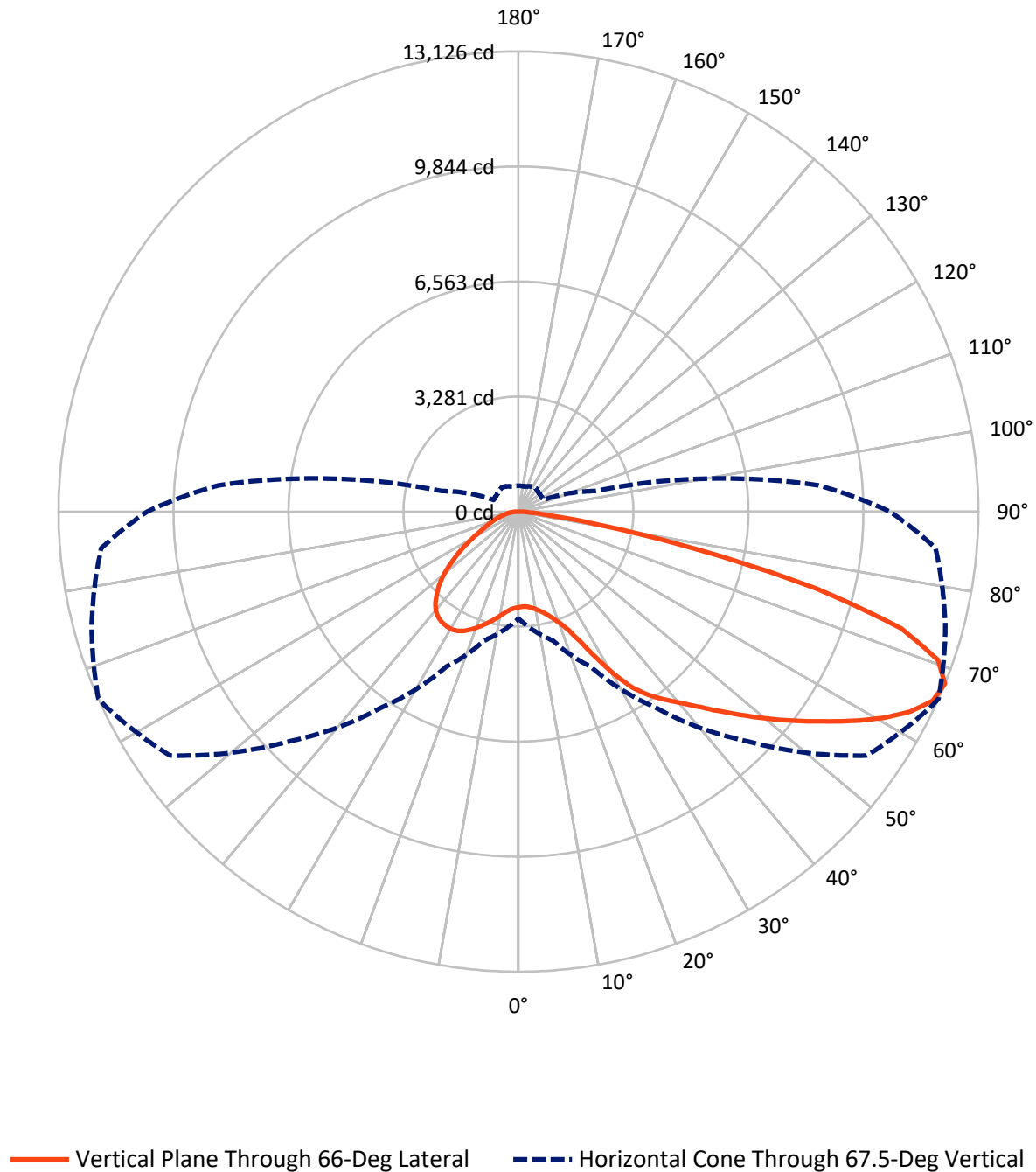


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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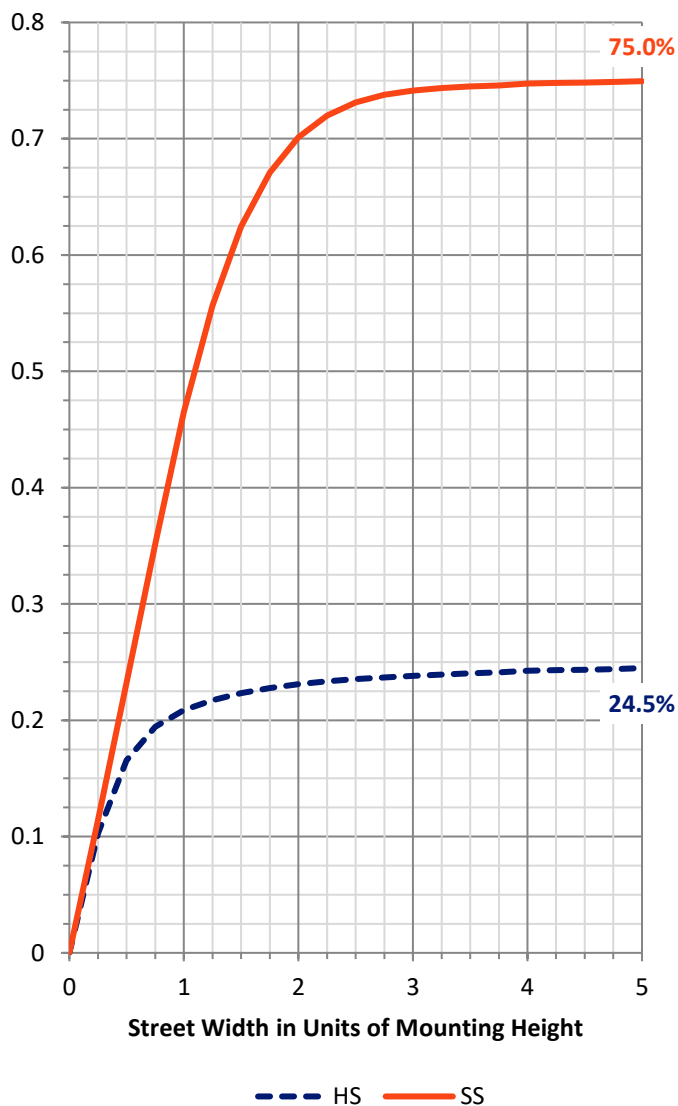
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6113.9	0.0	6113.9
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	18474.8	0.0	18474.8
	% Fixture	75.1	0.0	75.1
Total	Lumens	24588.7	0.0	24588.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.4	1.1
10°-20°	893.3	3.6
20°-30°	1721.9	7.0
30°-40°	3019.1	12.3
40°-50°	4488.4	18.3
50°-60°	5689.4	23.1
60°-70°	5567.0	22.6
70°-80°	2655.5	10.8
80°-90°	283.8	1.2
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°	24588.7	100.0
0°-180°	24588.7	100.0

Coefficient of Utilization



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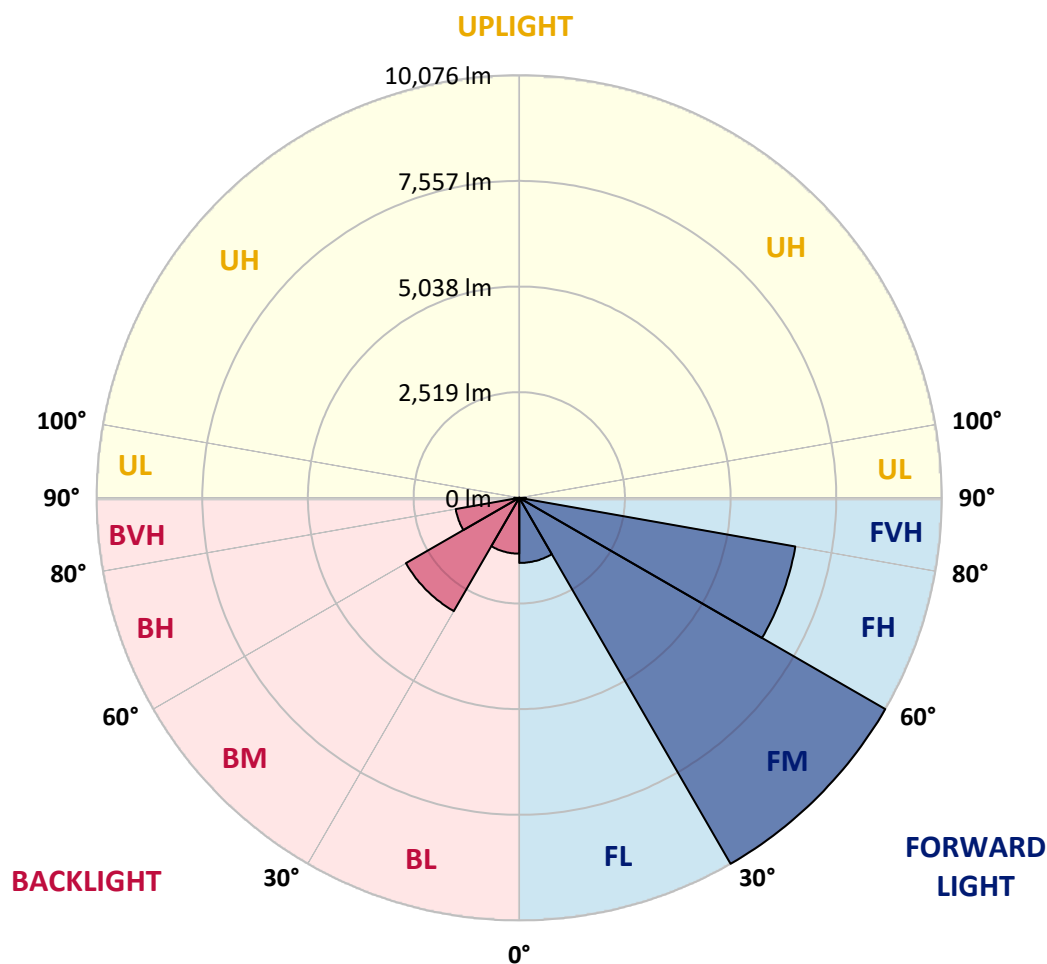
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1553.8	6.3			
FM	(30°-60°)	10076.3	41.0			
FH	(60°-80°)	6683.9	27.2			G3/7500
FVH	(80°-90°)	160.9	0.7			G2/225
BL	(0°-30°)	1331.8	5.4	B3/2500		
BM	(30°-60°)	3120.6	12.7	B3/5000		
BH	(60°-80°)	1538.6	6.3	B3/2500		G3/2500
BVH	(80°-90°)	122.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2727.2	2727.2	2727.2	2727.2	2727.2	2727.2	2727.2	2727.2	2727.2	2727.2	2727.2
2.5°	2698.8	2714.3	2710.4	2704.0	2702.6	2705.3	2709.2	2713.0	2711.7	2718.2	2728.5
5°	2691.0	2706.5	2705.3	2705.3	2710.4	2720.8	2727.2	2733.7	2727.2	2735.0	2749.2
7.5°	2696.2	2707.8	2713.0	2718.2	2731.1	2750.5	2766.0	2780.2	2772.4	2781.4	2799.6
10°	2762.1	2771.2	2776.3	2776.3	2785.3	2807.3	2822.8	2848.7	2842.2	2856.4	2879.6
12.5°	2882.2	2891.3	2891.3	2886.1	2892.5	2906.8	2911.9	2940.4	2928.7	2952.0	2975.3
15°	3029.5	3047.6	3033.4	3024.4	3026.9	3041.2	3039.8	3061.8	3050.2	3069.6	3090.3
17.5°	3192.3	3215.5	3192.3	3191.0	3185.8	3201.4	3202.6	3222.0	3201.4	3215.5	3229.8
20°	3384.8	3417.0	3397.7	3404.1	3392.5	3399.0	3405.5	3433.9	3401.6	3411.9	3408.0
22.5°	3656.1	3694.8	3674.2	3698.7	3691.0	3685.8	3684.6	3734.9	3684.6	3688.4	3650.9
25°	4051.4	4098.0	4061.8	4095.4	4095.4	4112.1	4131.5	4196.1	4112.1	4087.6	3990.7
27.5°	4635.4	4681.9	4610.9	4631.5	4625.0	4666.4	4645.7	4805.9	4715.4	4675.4	4480.4
30°	5338.2	5420.8	5286.4	5281.3	5274.9	5340.8	5370.5	5476.4	5384.6	5344.7	5109.5
32.5°	6097.8	6184.3	6024.1	5977.7	5953.1	5993.2	5968.6	6053.9	5990.6	5928.6	5637.9
35°	6901.3	6986.6	6834.2	6743.8	6645.6	6561.6	6473.7	6495.7	6436.3	6342.0	6040.9
37.5°	7661.1	7817.4	7655.8	7559.0	7378.1	7214.1	6968.6	6866.5	6810.9	6724.4	6420.8
40°	8434.8	8524.0	8401.3	8318.6	8122.2	7865.1	7472.4	7256.6	7181.7	7097.7	6840.6
42.5°	9004.6	9089.9	9024.0	8967.1	8813.4	8515.0	8007.2	7737.2	7628.7	7534.4	7316.0
45°	9456.8	9520.1	9478.7	9499.4	9433.5	9144.1	8561.4	8252.7	8140.3	8025.3	7853.6
47.5°	9638.9	9706.1	9771.9	9894.7	10007.1	9794.0	9157.0	8810.8	8691.9	8574.4	8405.1
50°	9618.3	9686.8	9877.9	10138.9	10487.7	10416.7	9784.9	9405.1	9295.3	9160.9	9004.6
52.5°	9452.9	9530.3	9775.8	10209.9	10765.5	10883.0	10424.4	10018.8	9915.3	9755.2	9598.8
55°	9018.8	9065.3	9433.5	10048.5	10831.4	11208.6	11050.9	10672.4	10569.1	10345.6	10175.1
57.5°	8213.9	8281.1	8817.3	9613.1	10665.9	11429.5	11601.4	11359.8	11260.2	10938.6	10760.2
60°	7163.6	7270.8	7884.5	8881.8	10244.8	11428.2	12101.3	12035.4	11952.7	11522.5	11336.5
62.5°	5975.0	6099.1	6689.5	7848.3	9508.4	11103.9	12414.0	12601.2	12558.6	12061.3	11823.5
65°	4588.8	4674.1	5261.9	6511.2	8362.5	10407.6	12450.1	12987.6	12995.3	12470.8	12078.0
67.5°	3055.3	3300.8	3811.2	4886.0	6827.7	9269.4	12132.3	13050.8	13125.7	12611.6	11950.2
70°	1490.9	1813.8	2313.8	3175.6	4886.0	7524.0	11301.5	12531.4	12698.1	12200.8	11187.9
72.5°	618.8	723.4	996.1	1567.1	2804.7	5077.2	9632.4	11123.3	11432.0	10810.7	9406.3
75°	417.3	452.1	569.7	803.6	1277.7	2503.7	6946.6	8294.0	8791.4	8164.8	6674.0
77.5°	321.6	343.7	414.7	562.0	759.6	947.0	3718.1	4998.4	5255.5	4865.4	3472.6
80°	253.2	270.0	310.1	409.5	538.7	506.5	1267.3	2264.7	2413.3	2024.4	1116.2
82.5°	219.7	226.1	222.2	277.8	357.8	295.8	415.9	835.9	922.4	669.2	364.3
85°	158.9	177.0	184.7	171.8	189.9	149.9	170.6	295.8	325.5	290.7	205.4
87.5°	64.6	95.6	117.6	111.1	69.8	42.6	53.0	86.5	99.5	108.5	67.1
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°	2727.2	2727.2	2727.2	2727.2	2727.2	2727.2	2727.2	2727.2	2727.2	2727.2	2727.2
2.5°	2729.8	2738.8	2745.3	2753.0	2758.2	2766.0	2781.4	2790.6	2791.8	2798.2	2797.0
5°	2754.4	2767.3	2781.4	2802.1	2825.4	2844.8	2874.5	2895.1	2902.9	2909.4	2908.1
7.5°	2807.3	2825.4	2851.2	2887.4	2921.0	2946.9	2983.1	3007.6	3032.2	3041.2	3042.4
10°	2886.1	2911.9	2949.4	2998.5	3034.7	3068.2	3105.7	3126.5	3151.0	3161.3	3166.4
12.5°	2984.3	3011.4	3060.5	3129.0	3162.6	3185.8	3198.7	3193.6	3198.7	3207.8	3210.4
15°	3096.7	3126.5	3182.0	3255.6	3278.9	3258.2	3229.8	3203.9	3200.0	3202.6	3211.6
17.5°	3229.8	3251.7	3316.3	3378.3	3361.6	3276.3	3214.3	3172.9	3152.3	3145.8	3154.8
20°	3415.8	3415.8	3468.8	3507.6	3395.1	3250.5	3153.5	3086.4	3043.7	3025.6	3021.8
22.5°	3641.9	3621.2	3654.8	3627.7	3388.6	3178.1	3043.7	2927.5	2862.8	2837.0	2833.1
25°	3928.7	3904.1	3895.1	3727.1	3342.1	3063.1	2844.8	2704.0	2647.2	2632.9	2635.5
27.5°	4361.5	4299.5	4181.9	3781.4	3256.9	2882.2	2612.2	2481.7	2449.4	2450.8	2454.7
30°	4937.6	4813.6	4525.6	3790.4	3117.3	2626.5	2374.5	2281.5	2266.0	2272.4	2294.5
32.5°	5471.2	5353.7	4877.0	3749.1	2902.9	2375.8	2161.3	2099.3	2076.1	2083.8	2094.2
35°	5889.8	5857.5	5202.5	3691.0	2639.4	2140.7	1970.2	1917.2	1872.0	1861.6	1869.4
37.5°	6285.1	6272.2	5446.6	3609.5	2378.4	1974.0	1816.4	1746.7	1680.8	1644.6	1645.8
40°	6719.2	6706.3	5606.9	3484.3	2147.2	1829.3	1678.2	1586.5	1505.1	1439.2	1445.7
42.5°	7207.6	7131.3	5683.1	3304.7	1950.8	1706.6	1565.8	1441.8	1334.6	1273.9	1277.7
45°	7741.1	7569.3	5681.8	3076.0	1785.4	1594.2	1445.7	1270.0	1170.4	1113.7	1111.0
47.5°	8306.9	7987.8	5612.1	2822.8	1625.2	1470.2	1259.6	1125.2	1059.3	1024.5	1016.7
50°	8890.8	8379.3	5493.2	2532.2	1461.1	1329.3	1143.4	1051.6	1001.2	968.9	957.4
52.5°	9439.9	8734.5	5349.8	2202.7	1294.5	1192.4	1091.6	1020.6	967.6	931.4	915.9
55°	9950.3	9040.8	5146.9	1865.5	1158.9	1100.7	1067.1	1007.7	947.0	904.4	887.5
57.5°	10403.8	9239.8	4796.9	1549.0	1061.9	1037.4	1041.3	985.7	915.9	879.8	856.5
60°	10780.9	9385.7	4278.8	1255.7	983.2	975.4	1001.2	944.3	862.9	821.6	803.6
62.5°	11007.1	9383.2	3643.2	1028.4	915.9	918.5	948.2	892.7	810.1	771.3	759.6
65°	10987.7	9153.1	2945.5	879.8	851.4	853.9	892.7	835.9	766.1	742.8	741.6
67.5°	10598.8	8592.5	2259.5	782.9	780.3	791.9	837.1	797.1	738.9	736.4	740.3
70°	9545.9	7428.5	1627.8	705.4	706.6	723.4	782.9	772.5	724.8	729.9	728.7
72.5°	7654.5	5663.7	1093.0	624.0	625.2	652.4	731.2	753.2	710.5	779.0	789.4
75°	5097.8	3532.0	702.8	537.4	538.7	573.6	686.0	715.8	671.8	776.4	782.9
77.5°	2449.4	1587.7	509.0	452.1	452.1	484.4	593.0	640.8	572.4	603.3	552.9
80°	846.2	596.9	400.5	364.3	356.6	378.5	500.0	555.6	493.5	454.8	426.3
82.5°	333.3	310.1	321.6	282.9	257.1	271.3	388.9	458.6	363.1	328.1	326.9
85°	191.2	201.5	227.3	187.4	148.5	166.7	285.5	329.4	273.9	241.6	246.7
87.5°	51.7	71.0	104.7	96.9	67.1	71.0	135.6	182.1	157.6	121.5	125.4
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)