

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: P962635

Luminaire Tested: **NAV-SB2C-835-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-835-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14153.2 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 100.9
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

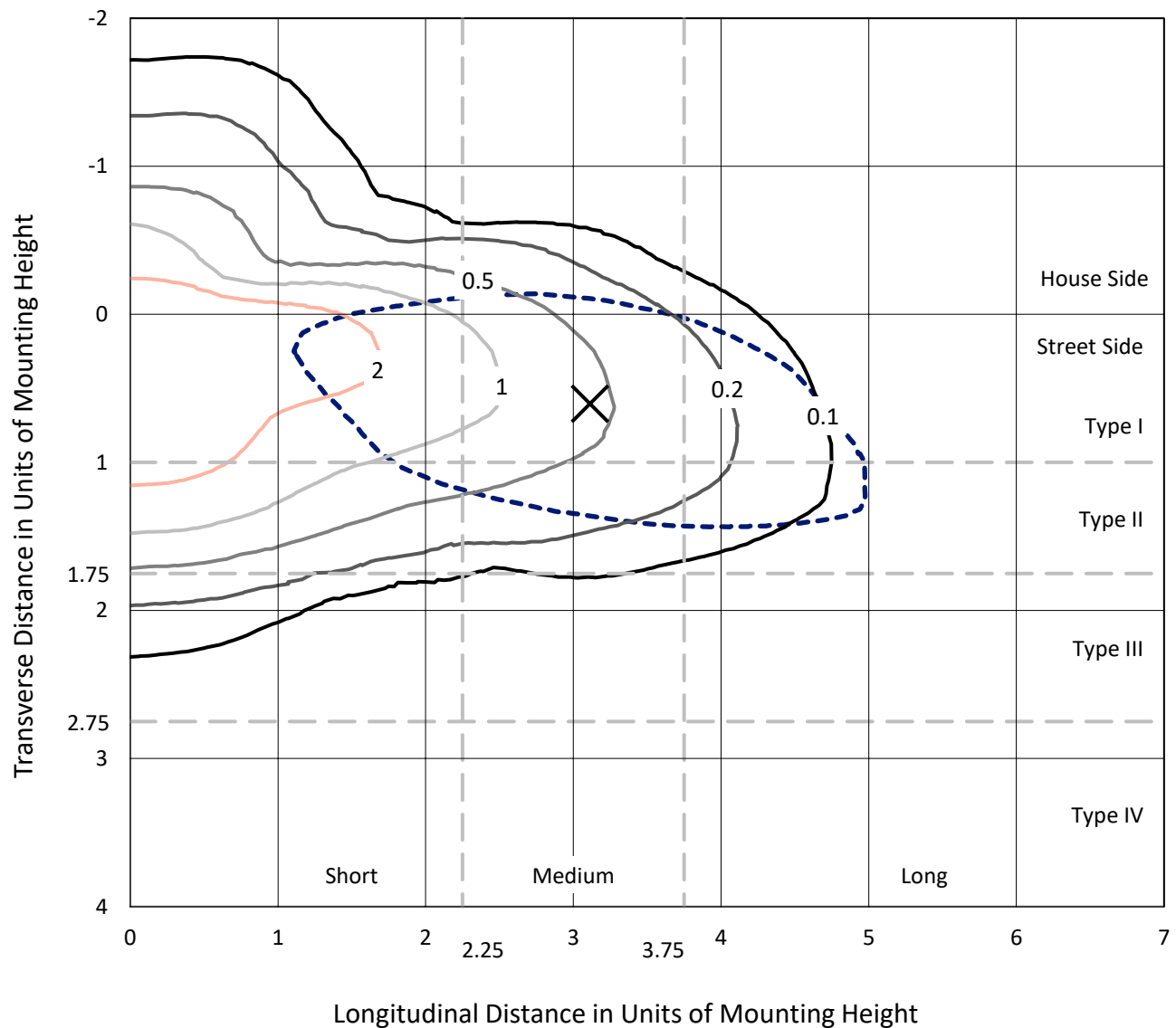


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Iso-Footcandle Lines of Horizontal Illumination

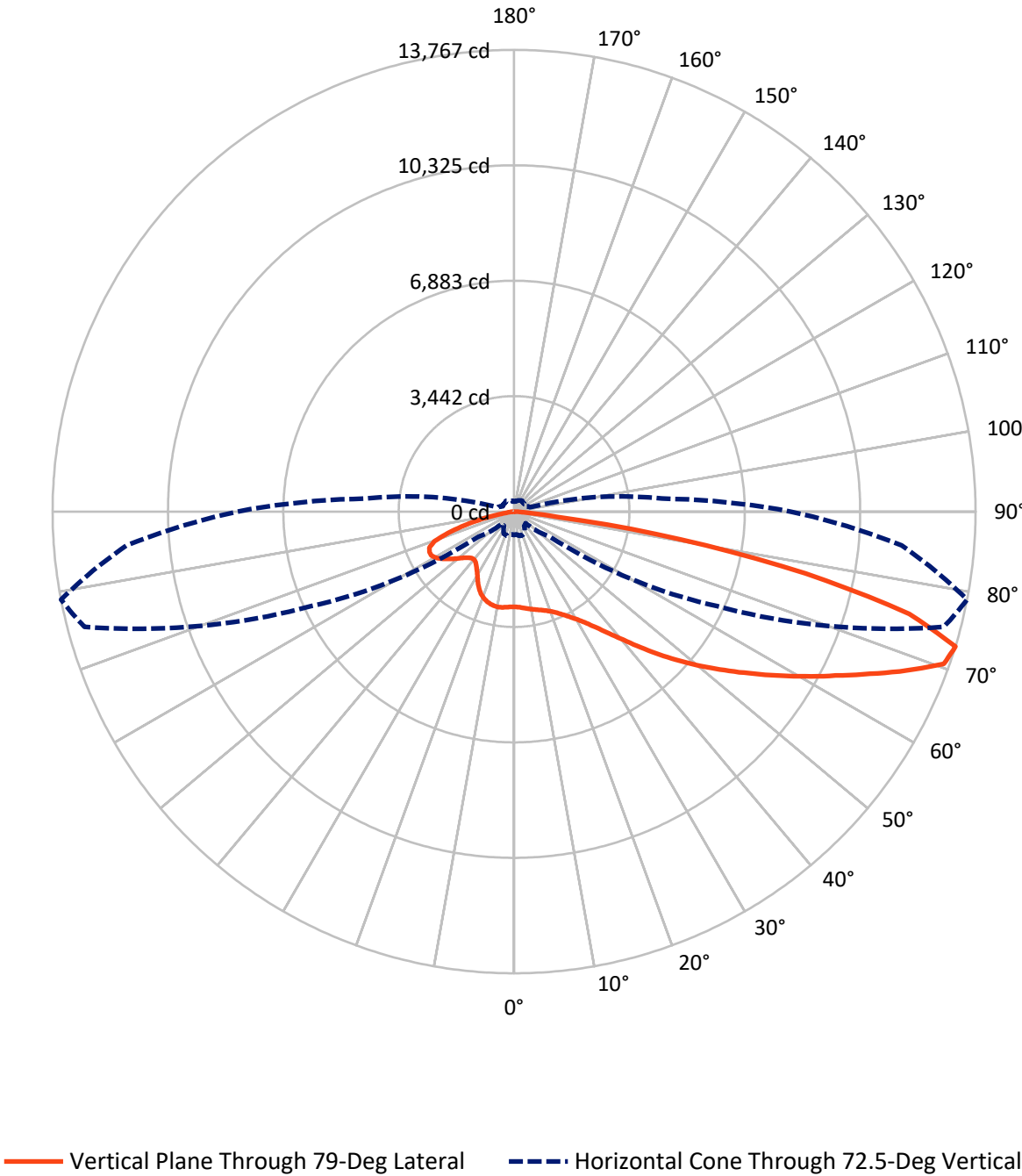
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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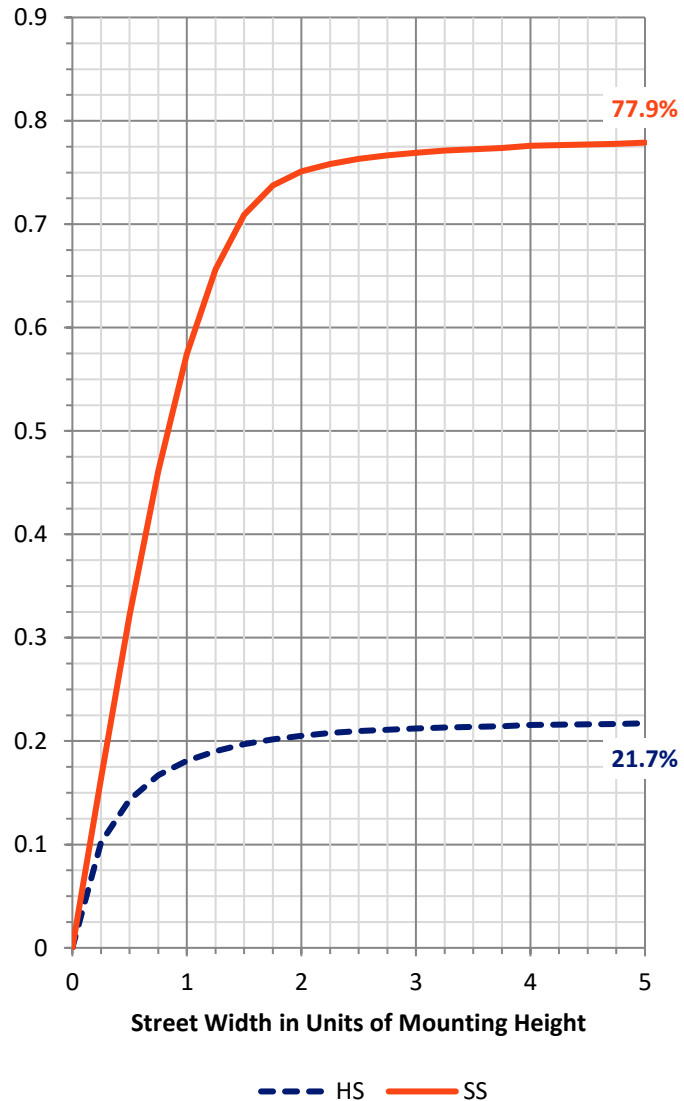
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3114.5	0.0	3114.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	11038.7	0.0	11038.7
	% Fixture	78.0	0.0	78.0
Total	Lumens	14153.2	0.0	14153.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.9	1.8
10°-20°	674.3	4.8
20°-30°	1088.0	7.7
30°-40°	1632.9	11.5
40°-50°	2316.4	16.4
50°-60°	2925.3	20.7
60°-70°	2971.0	21.0
70°-80°	2024.9	14.3
80°-90°	262.7	1.9
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°	14153.2	100.0
0°-180°	14153.2	100.0

Coefficient of Utilization



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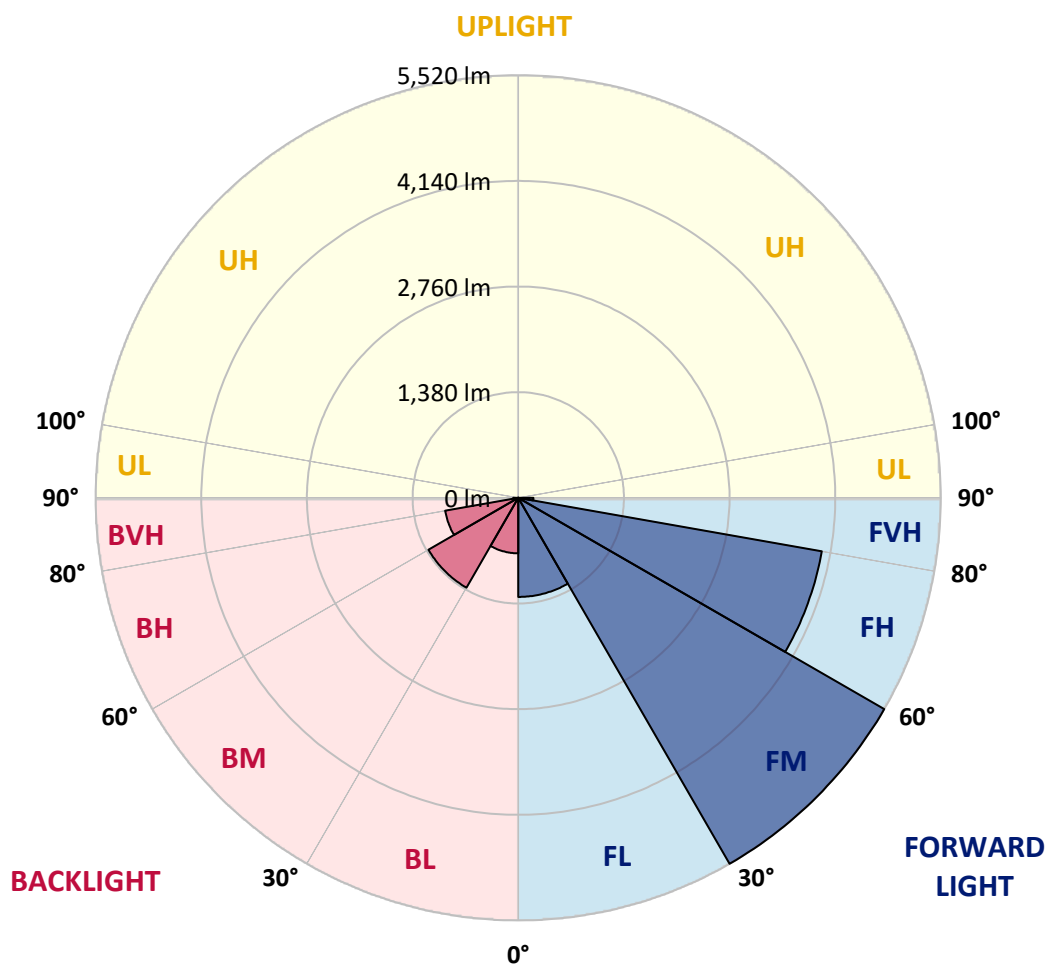
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1294.7	9.1			
FM	(30°-60°)	5520.0	39.0			
FH	(60°-80°)	4026.1	28.4			G2/5000
FVH	(80°-90°)	197.9	1.4			G2/225
BL	(0°-30°)	725.5	5.1	B2/1000		
BM	(30°-60°)	1354.5	9.6	B2/2500		
BH	(60°-80°)	969.7	6.9	B2/1000		G2/1000
BVH	(80°-90°)	64.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2841.1	2841.1	2841.1	2841.1	2841.1	2841.1	2841.1	2841.1	2841.1	2841.1	2841.1
2.5°	2842.6	2829.1	2837.4	2834.4	2838.1	2842.6	2844.1	2846.3	2853.8	2853.1	2852.4
5°	2836.6	2823.2	2834.4	2830.6	2840.4	2850.8	2859.9	2868.1	2880.0	2885.3	2877.8
7.5°	2823.9	2815.0	2826.1	2837.4	2855.3	2871.0	2883.8	2902.5	2919.7	2922.7	2927.9
10°	2749.8	2743.0	2769.2	2798.5	2847.9	2890.5	2918.3	2939.9	2958.7	2961.6	2969.1
12.5°	2672.7	2664.5	2693.6	2733.3	2813.4	2890.5	2948.9	2977.4	2993.8	3003.6	3014.8
15°	2660.0	2653.2	2669.7	2704.2	2770.8	2870.3	2969.9	3022.3	3036.6	3047.7	3052.2
17.5°	2721.4	2708.6	2715.3	2727.3	2766.3	2851.7	2986.3	3073.2	3094.9	3106.9	3106.9
20°	2863.5	2845.6	2835.1	2811.2	2804.4	2854.6	2984.9	3134.6	3163.0	3178.0	3181.8
22.5°	3053.0	3041.0	3018.5	2957.9	2892.0	2891.3	3013.3	3213.2	3266.4	3280.6	3271.6
25°	3282.0	3264.1	3235.6	3153.3	3026.8	2963.9	3061.3	3313.5	3402.6	3406.4	3380.1
27.5°	3545.6	3518.6	3479.7	3371.1	3200.5	3077.7	3134.6	3428.8	3559.1	3557.6	3503.7
30°	3823.4	3796.4	3755.2	3623.5	3408.6	3231.2	3236.4	3553.1	3744.7	3736.5	3644.4
32.5°	4026.2	4006.0	3997.8	3895.9	3648.2	3412.3	3353.2	3690.8	3973.8	3966.3	3837.6
35°	4182.0	4155.8	4165.5	4113.8	3909.5	3615.2	3496.2	3854.8	4252.3	4251.6	4091.4
37.5°	4336.2	4313.0	4321.2	4286.8	4151.2	3872.8	3670.6	4055.4	4597.4	4613.9	4398.3
40°	4476.9	4452.2	4485.2	4453.0	4339.1	4146.7	3869.0	4282.2	4997.2	5028.6	4769.6
42.5°	4561.6	4542.1	4596.7	4597.4	4502.4	4378.1	4086.9	4532.3	5459.9	5530.3	5226.3
45°	4590.7	4584.0	4666.3	4683.5	4646.8	4512.2	4283.1	4804.8	5958.5	6084.3	5746.7
47.5°	4559.3	4546.5	4660.4	4724.0	4753.1	4575.0	4445.4	5099.8	6467.5	6651.7	6314.1
50°	4400.5	4375.8	4545.1	4679.0	4783.2	4616.2	4609.4	5440.4	7046.3	7247.7	6884.6
52.5°	4115.3	4096.6	4289.0	4521.8	4717.3	4636.4	4793.6	5812.5	7595.8	7856.3	7469.3
55°	3750.7	3726.0	3937.8	4241.9	4553.3	4629.6	4977.8	6228.7	8244.1	8508.4	8073.4
57.5°	3172.8	3123.4	3391.4	3750.7	4286.0	4621.4	5169.4	6642.7	8902.9	9219.6	8718.0
60°	2329.8	2256.4	2585.0	3011.0	3763.5	4541.3	5406.8	7106.9	9693.5	9978.7	9421.7
62.5°	1356.6	1313.8	1528.8	1926.3	2836.6	4069.7	5540.0	7646.7	10470.6	10770.1	10113.5
65°	1053.4	1041.4	1060.1	1090.8	1578.9	3047.0	5129.0	8173.0	11458.8	11668.4	10834.5
67.5°	963.5	954.5	962.8	905.1	801.0	1697.2	4057.7	8306.3	12517.4	12644.7	11465.5
70°	856.5	845.9	872.9	823.5	630.4	771.8	2621.7	7822.6	13359.6	13598.5	11945.5
72.5°	697.7	685.7	748.7	726.2	530.7	495.6	1316.9	6673.5	13271.3	13766.9	11601.8
75°	536.1	529.3	604.1	622.9	432.8	390.0	631.8	4960.6	11679.0	12178.2	9999.0
77.5°	416.3	411.0	449.2	517.3	348.9	302.5	388.6	3146.5	8801.1	8888.7	6890.6
80°	312.2	297.2	332.4	400.6	271.7	220.9	263.5	1835.0	5563.2	5042.9	2999.0
82.5°	195.4	187.9	217.1	267.2	191.7	152.0	171.5	1013.6	2229.5	1313.1	578.7
85°	111.5	108.5	118.3	152.7	104.0	87.6	98.1	447.7	407.2	280.0	174.5
87.5°	44.9	43.5	53.9	68.2	38.1	32.2	34.4	107.8	89.8	83.1	57.6
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°	2841.1	2841.1	2841.1	2841.1	2841.1	2841.1	2841.1	2841.1	2841.1	2841.1	2841.1
2.5°	2849.4	2849.4	2838.8	2822.4	2803.7	2791.7	2772.2	2767.0	2746.8	2740.8	2750.5
5°	2883.8	2877.8	2845.6	2799.2	2735.5	2677.2	2612.8	2572.3	2515.5	2495.3	2510.2
7.5°	2927.2	2910.8	2855.3	2753.6	2620.3	2489.2	2353.0	2249.7	2150.9	2115.7	2120.2
10°	2966.9	2943.7	2849.4	2671.1	2440.6	2213.8	1996.6	1844.7	1729.4	1682.2	1692.7
12.5°	3006.5	2963.9	2809.6	2534.2	2185.3	1877.6	1646.3	1528.0	1456.8	1399.9	1418.7
15°	3044.0	2984.1	2748.3	2350.7	1905.3	1593.2	1422.4	1328.1	1271.2	1233.8	1240.6
17.5°	3087.4	3001.3	2656.2	2118.0	1638.8	1396.3	1257.0	1200.1	1188.9	1184.4	1187.4
20°	3148.1	3017.1	2534.9	1857.4	1442.7	1239.0	1167.2	1161.9	1161.1	1158.9	1166.3
22.5°	3213.2	3035.7	2374.7	1620.8	1275.7	1140.9	1128.2	1117.8	1111.0	1110.3	1118.5
25°	3290.4	3041.8	2174.0	1426.9	1133.4	1094.5	1079.5	1063.8	1059.3	1059.3	1063.8
27.5°	3365.2	3021.5	1940.5	1258.5	1053.4	1051.9	1032.4	1027.2	1026.4	1028.7	1034.6
30°	3440.0	2983.4	1708.4	1102.8	1007.0	1007.0	1000.2	1004.0	1007.0	1014.4	1019.7
32.5°	3541.1	2943.0	1514.5	987.5	966.5	959.0	965.8	973.2	976.2	985.9	994.2
35°	3689.4	2914.5	1360.3	924.6	924.6	914.8	918.6	917.1	910.4	905.9	916.4
37.5°	3885.5	2912.9	1233.1	895.3	889.4	887.9	888.7	878.9	852.7	821.2	822.0
40°	4121.3	2953.4	1135.0	875.1	870.6	879.7	875.1	849.0	777.1	722.4	721.0
42.5°	4437.9	3068.7	1072.0	850.4	864.0	875.1	857.2	766.6	717.9	681.3	679.8
45°	4810.8	3255.9	1039.9	824.3	851.3	864.7	777.9	738.2	699.3	655.1	652.1
47.5°	5233.0	3491.7	1032.4	799.6	822.8	831.0	744.2	726.2	682.0	634.1	630.4
50°	5692.7	3771.0	1052.6	770.4	781.6	753.2	733.0	716.5	670.8	623.6	618.4
52.5°	6168.1	4078.7	1093.1	730.7	740.5	709.0	728.5	714.2	664.1	600.4	595.9
55°	6635.2	4388.5	1131.9	684.3	698.5	669.3	715.8	705.2	633.3	561.5	557.7
57.5°	7109.9	4697.1	1170.1	643.1	658.0	631.1	695.5	681.3	598.9	525.5	524.1
60°	7603.2	4996.5	1188.1	603.4	613.9	595.9	664.8	640.1	560.0	488.8	486.7
62.5°	8065.2	5245.7	1158.9	563.8	570.5	563.0	624.3	591.4	521.1	447.7	446.9
65°	8528.6	5394.0	1069.1	524.8	526.3	522.5	567.4	539.0	475.4	411.7	407.2
67.5°	8948.6	5477.1	926.1	482.9	479.1	477.6	514.3	482.2	431.2	375.9	371.4
70°	9037.7	5266.0	707.5	433.5	433.5	429.7	455.9	423.0	382.5	337.6	336.1
72.5°	8254.6	4429.7	502.4	377.3	383.3	375.9	397.5	369.8	333.1	303.2	294.2
75°	6656.2	3248.4	365.3	319.7	330.2	317.4	337.6	318.2	286.7	286.0	257.6
77.5°	4573.4	2008.6	265.1	263.5	271.0	254.5	277.8	267.2	238.8	226.1	211.9
80°	1951.7	801.0	193.1	203.7	203.7	188.7	215.7	218.6	193.9	187.9	187.9
82.5°	388.6	227.6	135.5	140.0	131.7	127.3	152.7	169.2	233.6	259.7	260.6
85°	116.7	83.8	81.6	76.4	67.3	68.2	89.8	169.9	209.6	119.8	103.3
87.5°	32.2	21.0	21.7	17.2	14.2	18.8	30.6	128.7	70.4	29.9	25.4
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)