

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: P970525

Luminaire Tested: **NAV-SB6B-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-830-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24665.6 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 220.4
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



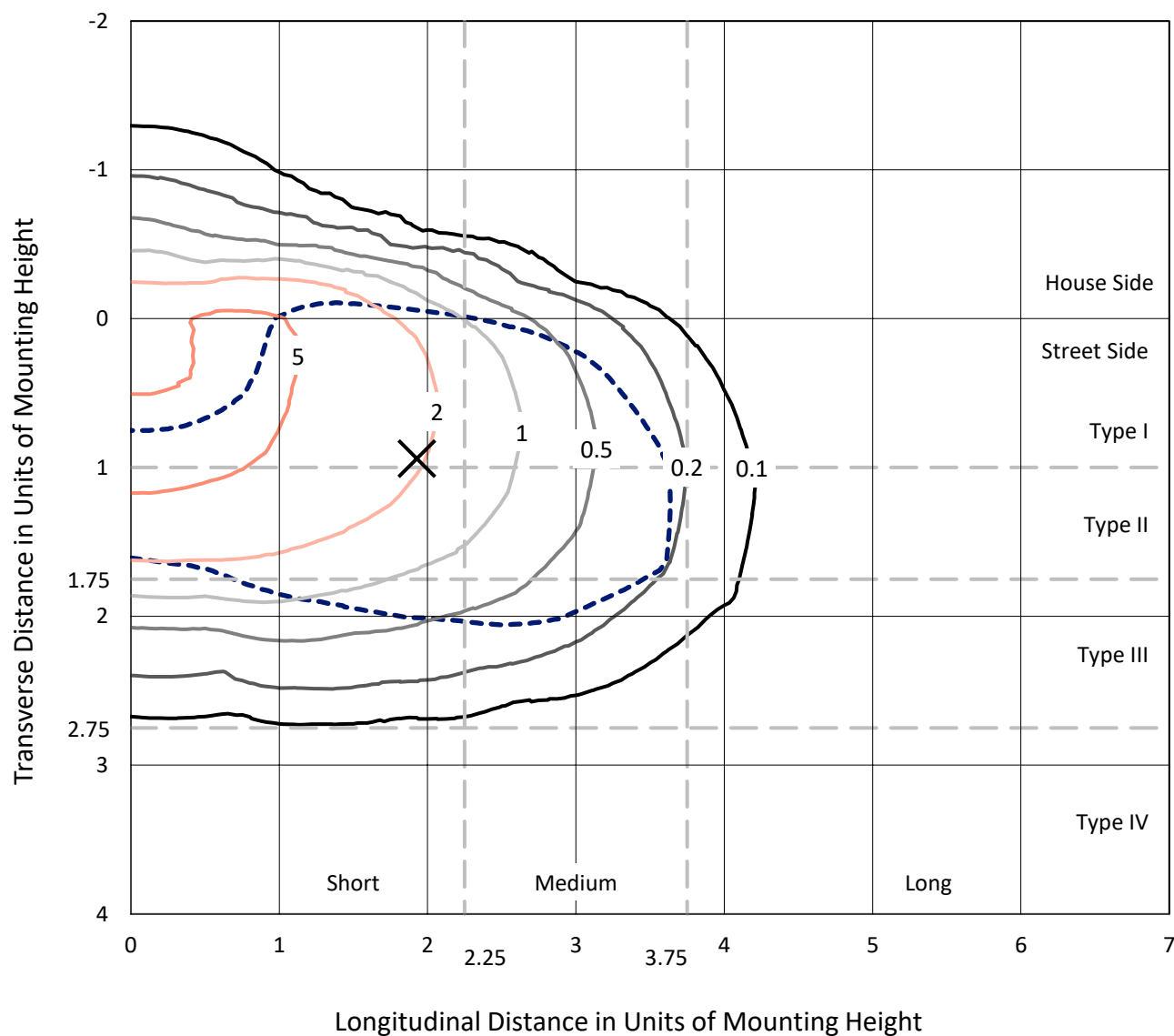
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

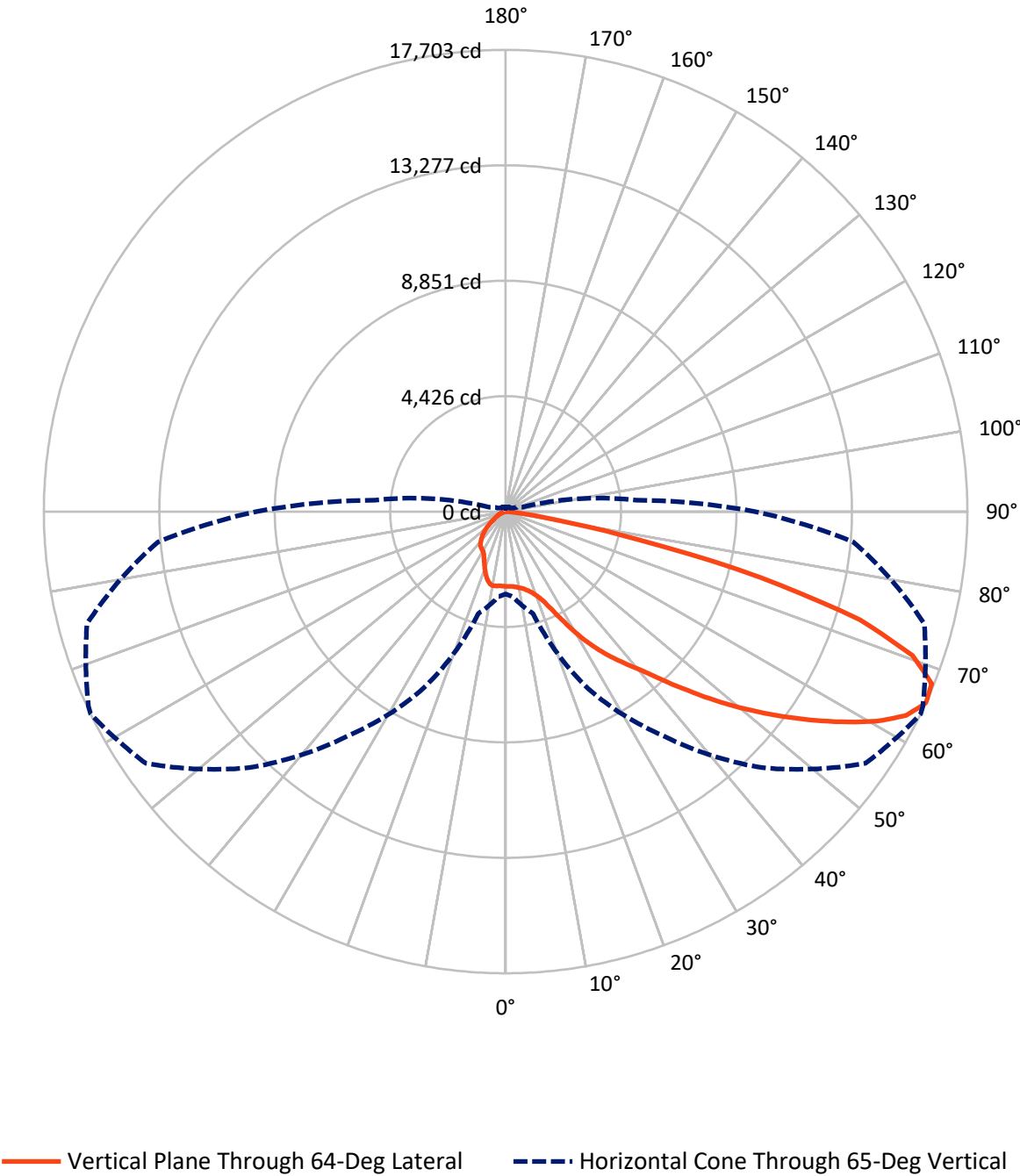


Based on 25 foot mounting height. Maximum calculated value = 7.2 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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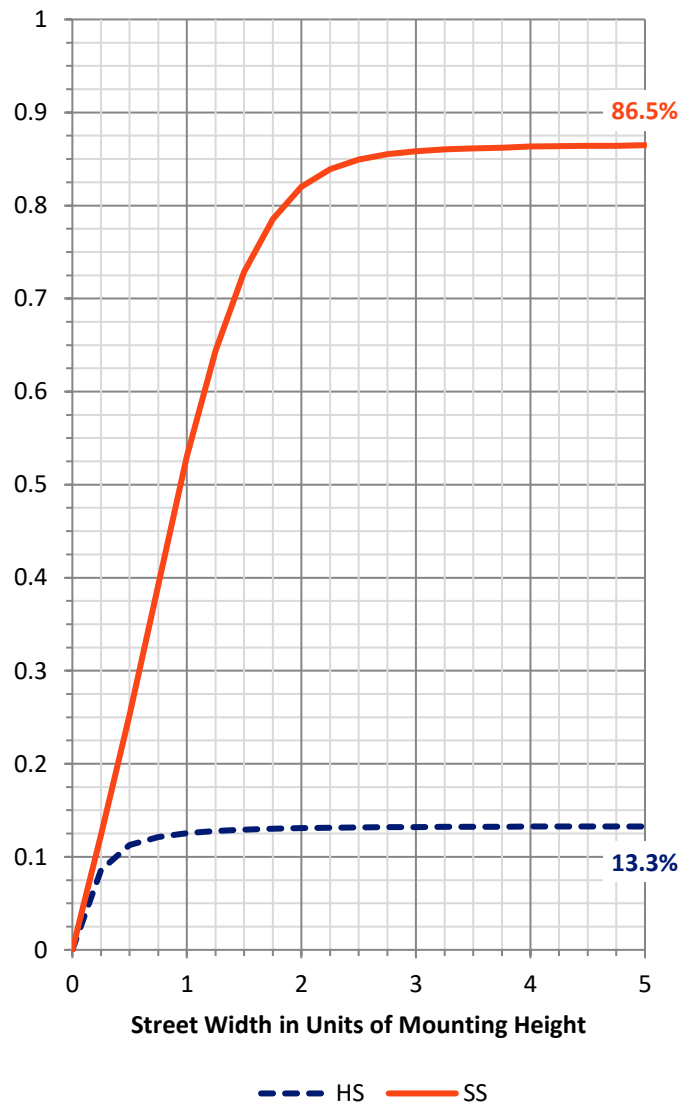
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3298.5	0.0	3298.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	21367.1	0.0	21367.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	24665.6	0.0	24665.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.7	1.1
10°-20°	717.9	2.9
20°-30°	1360.3	5.5
30°-40°	2752.7	11.2
40°-50°	4689.2	19.0
50°-60°	6377.0	25.9
60°-70°	5988.3	24.3
70°-80°	2399.2	9.7
80°-90°	116.2	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°	24665.6	100.0
0°-180°	24665.6	100.0

Coefficient of Utilization



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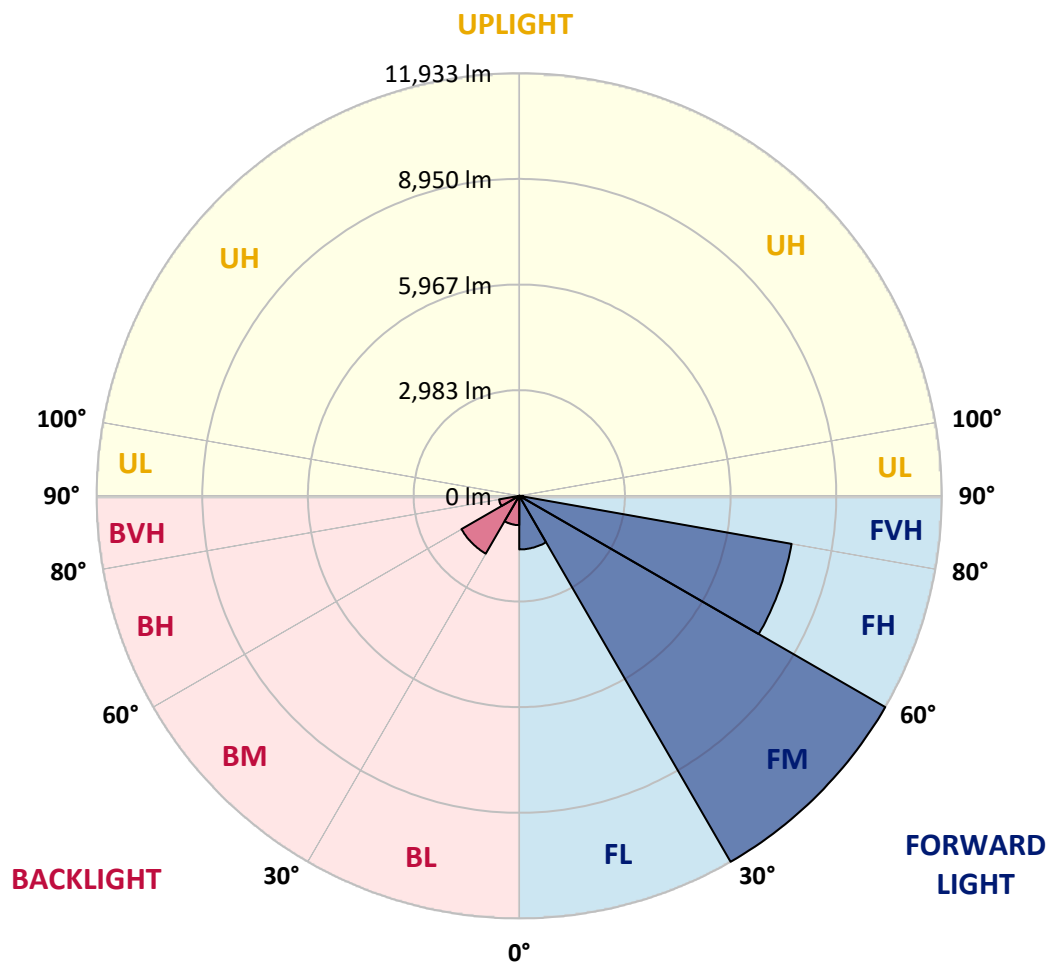
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1514.8	6.1			
FM	(30°-60°)	11933.2	48.4			
FH	(60°-80°)	7808.6	31.7			G4/12000
FVH	(80°-90°)	110.6	0.4			G2/225
BL	(0°-30°)	828.2	3.4	B2/1000		
BM	(30°-60°)	1885.7	7.6	B2/2500		
BH	(60°-80°)	578.9	2.3	B2/1000		G2/1000
BVH	(80°-90°)	5.7	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2868.9	2868.9	2868.9	2868.9	2868.9	2868.9	2868.9	2868.9	2868.9	2868.9	2868.9
2.5°	2858.9	2878.8	2873.8	2868.9	2867.2	2870.5	2872.2	2870.5	2870.5	2870.5	2872.2
5°	2804.4	2820.9	2820.9	2832.5	2849.0	2868.9	2883.7	2887.0	2890.4	2895.3	2893.7
7.5°	2700.2	2713.5	2723.3	2761.4	2802.8	2855.6	2900.2	2923.4	2926.8	2944.9	2951.6
10°	2629.1	2645.6	2662.1	2701.9	2761.4	2840.8	2916.8	2973.0	2981.3	3024.3	3044.1
12.5°	2625.8	2642.3	2663.9	2706.8	2776.3	2860.6	2953.2	3034.2	3049.1	3111.9	3153.3
15°	2660.5	2680.4	2700.2	2753.1	2827.6	2930.1	3029.3	3130.1	3145.0	3234.3	3279.0
17.5°	2731.6	2758.1	2772.9	2825.9	2905.3	3019.3	3149.9	3265.8	3279.0	3383.1	3439.3
20°	2872.2	2903.6	2908.5	2951.6	3029.3	3151.6	3307.1	3450.9	3467.5	3586.5	3649.3
22.5°	3163.1	3207.8	3168.2	3189.7	3259.1	3381.5	3550.1	3732.0	3755.2	3890.7	3947.0
25°	3675.8	3738.6	3636.1	3599.7	3629.5	3756.8	3968.5	4198.3	4224.7	4333.9	4362.0
27.5°	4682.8	4601.7	4446.3	4294.2	4205.0	4277.6	4515.7	4800.2	4833.3	4939.1	4906.0
30°	5789.0	5717.9	5507.9	5170.6	4959.0	4947.4	5167.2	5484.8	5522.8	5623.7	5522.8
32.5°	6896.8	6829.1	6600.9	6185.9	5818.7	5636.9	5789.0	6141.2	6161.1	6225.5	6076.7
35°	7986.5	7917.1	7688.9	7264.0	6812.6	6399.2	6369.3	6766.2	6772.8	6840.6	6619.0
37.5°	9082.8	9024.9	8781.9	8365.2	7920.4	7350.0	7073.7	7358.2	7366.5	7432.6	7202.8
40°	9864.9	9889.7	9722.7	9400.3	9018.4	8395.0	7864.2	7988.1	7938.5	8049.3	7912.1
42.5°	10536.3	10585.9	10440.3	10278.3	10056.8	9507.8	8843.1	8821.6	8742.2	8801.7	8659.5
45°	11116.6	11157.9	11027.4	10989.3	10984.4	10599.1	9912.9	9783.9	9673.1	9661.5	9491.2
47.5°	11329.9	11409.3	11465.5	11592.9	11840.9	11678.8	11019.1	10819.0	10695.0	10604.0	10334.6
50°	11411.0	11495.3	11687.2	12057.5	12644.5	12714.0	12120.3	11895.4	11743.3	11578.0	11181.1
52.5°	11301.9	11452.3	11710.2	12333.6	13185.2	13544.0	13176.9	12980.2	12806.6	12537.0	11948.3
55°	10658.7	10809.1	11336.6	12330.3	13454.8	14126.0	14175.6	14088.0	13893.0	13468.0	12568.4
57.5°	9302.7	9525.9	10361.0	11910.3	13449.7	14627.1	15154.5	15217.4	14999.1	14390.6	13056.2
60°	7424.3	7727.0	8745.5	10979.4	13034.7	14898.3	16012.8	16326.9	16095.4	15300.1	13451.4
62.5°	5180.5	5531.0	6495.0	9521.0	12085.6	14703.1	16639.4	17219.8	17044.5	16113.6	13603.6
65°	3159.9	3272.3	4049.5	7492.1	10471.8	13886.3	16832.9	17702.7	17644.8	16611.4	13378.7
67.5°	2104.9	2199.1	2422.4	5137.5	8128.8	12254.3	16369.9	17618.3	17634.8	16530.3	12555.2
70°	1268.2	1349.3	1494.8	2987.9	5268.1	9699.6	14936.3	16543.5	16639.4	15447.3	10994.3
72.5°	522.5	577.1	709.4	1354.2	2728.3	6156.0	11893.8	14203.7	14427.0	12988.4	8437.9
75°	296.0	324.1	416.7	679.6	1183.9	2868.9	7204.4	10083.2	10412.3	8952.1	5076.3
77.5°	196.8	210.0	269.6	439.8	666.4	978.9	3078.9	5253.2	5881.6	4889.5	2197.5
80°	132.3	143.8	185.2	294.3	433.3	420.0	980.5	1946.2	2394.3	1680.0	535.8
82.5°	89.3	90.9	132.3	193.4	274.5	203.4	289.4	605.2	760.7	486.2	203.4
85°	51.2	49.6	97.6	112.4	122.4	84.4	87.6	181.9	238.1	205.0	115.7
87.5°	6.7	9.9	38.0	29.7	16.5	18.1	18.1	31.5	46.3	49.6	24.8
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°	2868.9	2868.9	2868.9	2868.9	2868.9	2868.9	2868.9	2868.9	2868.9	2868.9	2868.9
2.5°	2872.2	2870.5	2865.6	2860.6	2849.0	2842.4	2845.7	2842.4	2840.8	2842.4	2849.0
5°	2893.7	2888.8	2875.4	2858.9	2835.8	2807.7	2789.5	2763.0	2738.3	2723.3	2726.7
7.5°	2951.6	2946.6	2928.4	2882.1	2807.7	2690.3	2582.8	2488.6	2417.5	2376.2	2377.8
10°	3044.1	3035.8	3007.8	2905.3	2710.1	2453.8	2240.5	2063.6	1947.8	1893.3	1888.4
12.5°	3153.3	3143.4	3093.8	2883.7	2524.9	2124.8	1830.4	1633.6	1526.2	1478.3	1473.3
15°	3282.3	3269.0	3171.5	2781.2	2255.4	1761.1	1491.5	1344.3	1274.9	1231.8	1233.5
17.5°	3442.7	3419.5	3229.4	2627.5	1962.8	1483.2	1283.1	1172.4	1111.2	1069.8	1066.5
20°	3650.9	3612.9	3275.6	2443.9	1693.2	1307.9	1142.6	1050.0	1003.7	967.3	960.7
22.5°	3942.0	3887.4	3331.9	2245.5	1503.1	1187.3	1038.4	970.6	932.5	891.2	884.7
25°	4302.4	4238.0	3401.3	2062.0	1372.5	1083.0	962.4	906.1	861.5	813.5	808.6
27.5°	4806.8	4691.0	3484.0	1911.5	1260.0	993.7	892.9	830.0	778.8	739.1	730.8
30°	5369.0	5178.8	3556.7	1820.5	1157.4	911.1	802.0	739.1	691.2	663.1	658.2
32.5°	5901.4	5643.4	3604.7	1780.8	1064.9	816.8	702.7	635.0	598.6	590.3	595.3
35°	6404.1	6063.5	3599.7	1742.8	982.2	722.6	605.2	535.8	507.7	512.6	512.6
37.5°	6982.8	6511.6	3565.0	1683.3	914.4	636.6	520.9	459.7	434.9	436.5	443.1
40°	7655.8	7029.1	3543.5	1570.8	840.0	557.2	451.4	401.8	383.7	377.0	375.4
42.5°	8373.4	7530.2	3546.8	1443.5	747.4	486.2	403.4	362.1	345.6	340.6	339.0
45°	9094.4	8008.0	3551.7	1311.3	649.8	431.5	368.7	334.0	324.1	317.4	317.4
47.5°	9772.3	8414.7	3459.2	1169.0	553.9	390.2	340.6	317.4	309.2	300.9	300.9
50°	10404.0	8686.0	3235.9	1003.7	477.9	357.2	319.1	302.6	294.3	286.1	286.1
52.5°	10895.0	8729.0	2867.2	833.4	425.0	332.4	305.9	291.0	281.1	272.9	271.2
55°	11113.4	8459.4	2343.0	674.7	383.7	310.9	292.6	277.8	266.2	258.0	256.2
57.5°	11057.1	7892.3	1827.2	542.3	343.9	289.4	276.1	266.2	253.0	239.7	238.1
60°	10780.9	7133.3	1377.4	451.4	307.6	266.2	258.0	249.7	231.4	211.7	208.4
62.5°	10303.1	6179.2	982.2	373.7	267.8	239.7	236.5	229.8	203.4	167.0	163.7
65°	9572.3	5020.1	661.4	310.9	229.8	210.0	211.7	200.1	165.3	124.0	120.7
67.5°	8504.1	3670.8	423.3	254.6	191.8	175.3	176.9	170.4	140.5	105.8	100.9
70°	7143.2	2430.7	276.1	193.4	153.8	135.6	145.5	147.2	119.1	86.0	82.7
72.5°	5236.7	1435.3	193.4	143.8	112.4	94.3	119.1	122.4	95.9	64.5	61.2
75°	2984.6	681.2	145.5	104.1	69.5	66.1	92.6	92.6	66.1	42.9	39.7
77.5°	1253.4	284.4	102.5	67.8	39.7	38.0	62.8	57.9	33.1	19.9	19.9
80°	362.1	127.3	54.5	33.1	16.5	14.9	24.8	18.1	8.3	3.3	3.3
82.5°	142.2	56.2	21.5	13.2	6.7	6.7	3.3	0.0	0.0	0.0	0.0
85°	84.4	23.2	9.9	4.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.5	4.9	3.3	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)