

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: P964733

Luminaire Tested: **NAV-SB3C-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-830-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20454.9 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 149.1
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

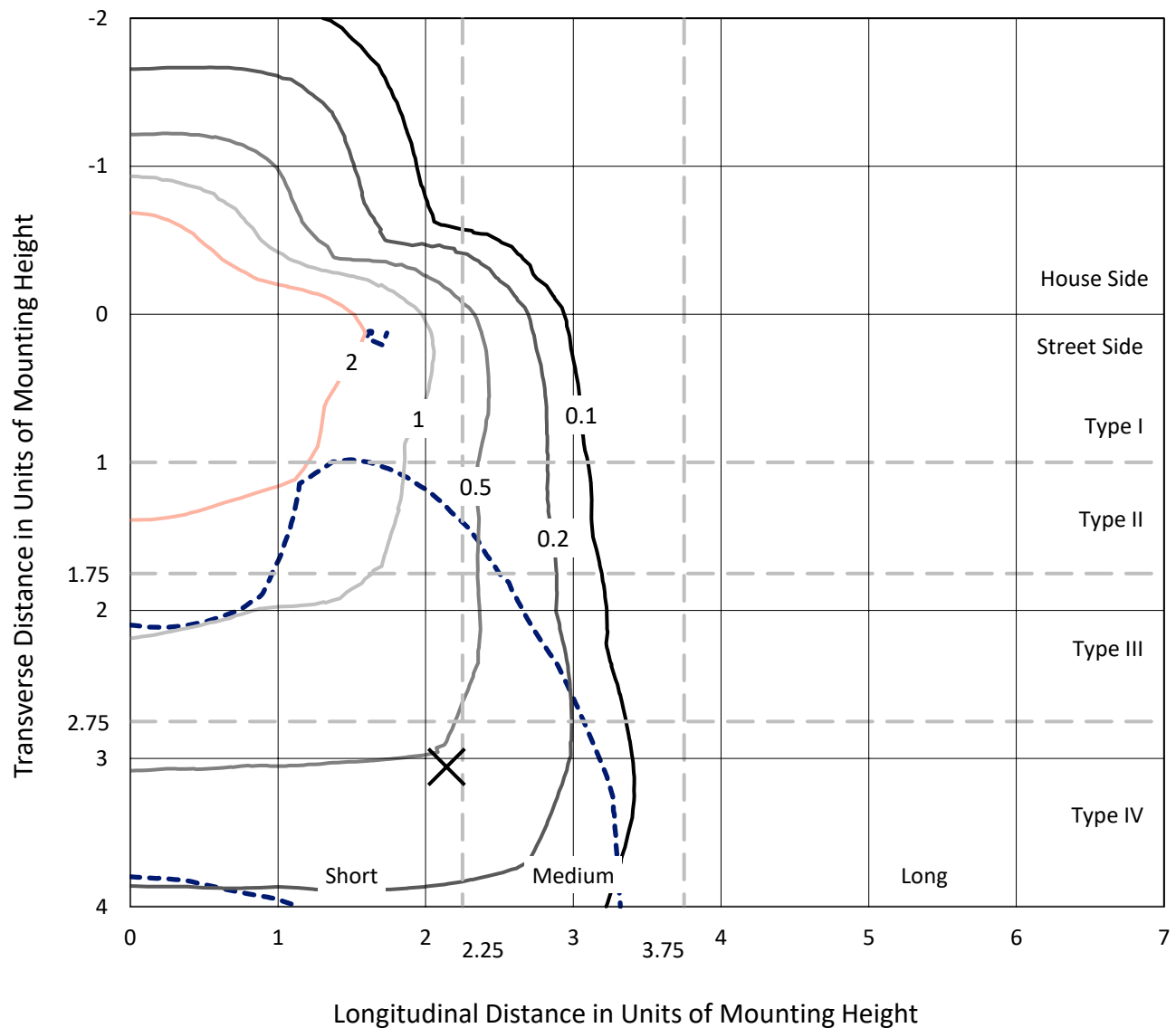


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Iso-Footcandle Lines of Horizontal Illumination

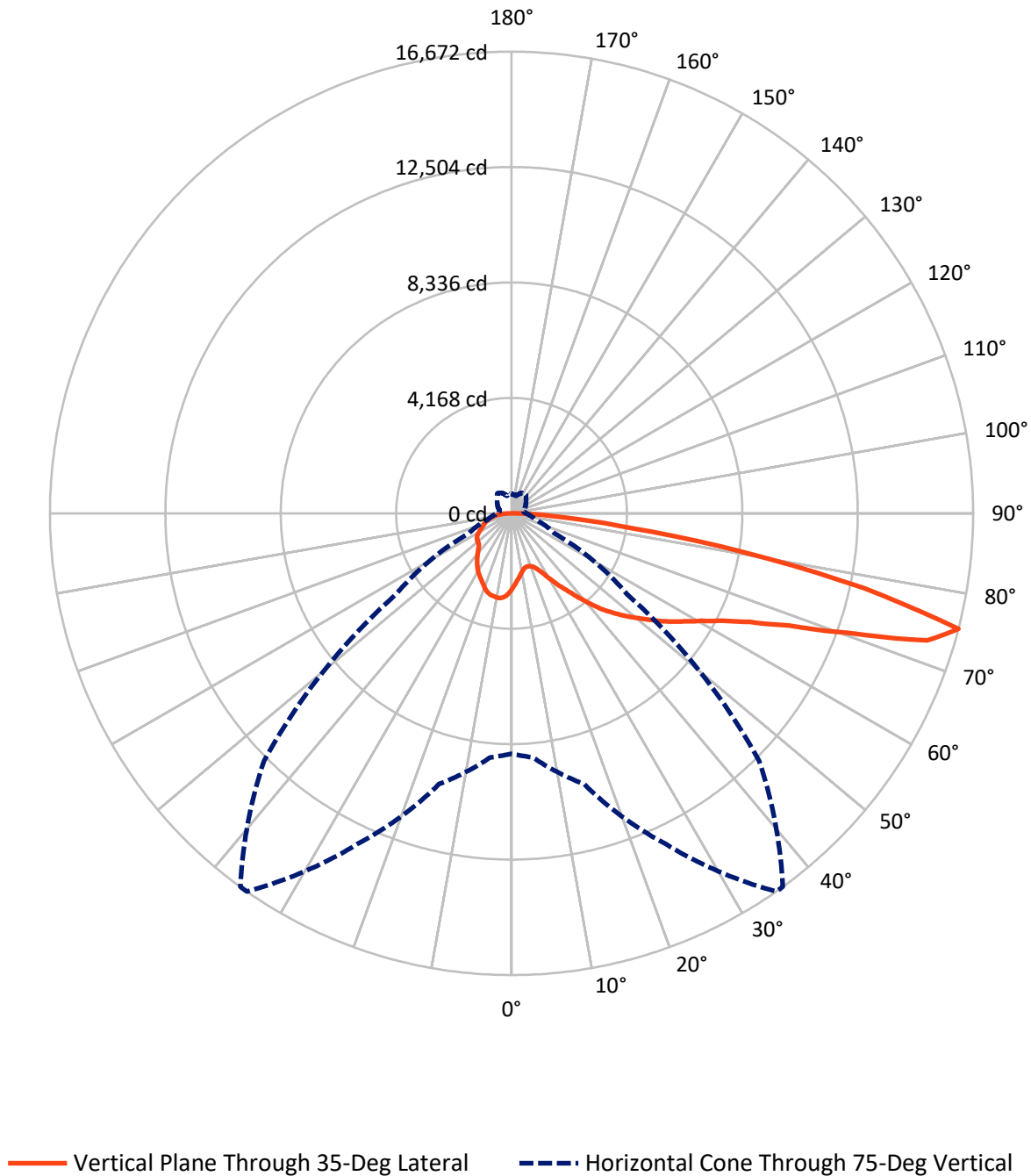
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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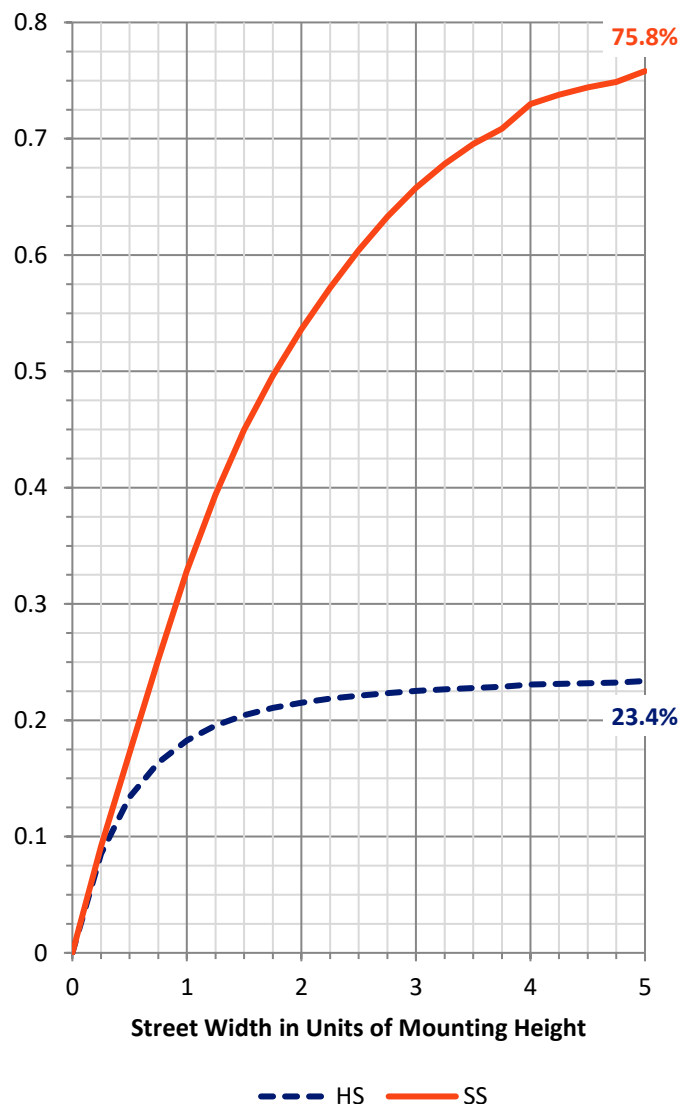
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4867.8	0.0	4867.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	15587.1	0.0	15587.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	20454.9	0.0	20454.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.1	1.3
10°-20°	744.4	3.6
20°-30°	1250.0	6.1
30°-40°	1942.7	9.5
40°-50°	2883.5	14.1
50°-60°	3980.9	19.5
60°-70°	4829.7	23.6
70°-80°	3991.4	19.5
80°-90°	574.1	2.8
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°	20454.9	100.0
0°-180°	20454.9	100.0

Coefficient of Utilization



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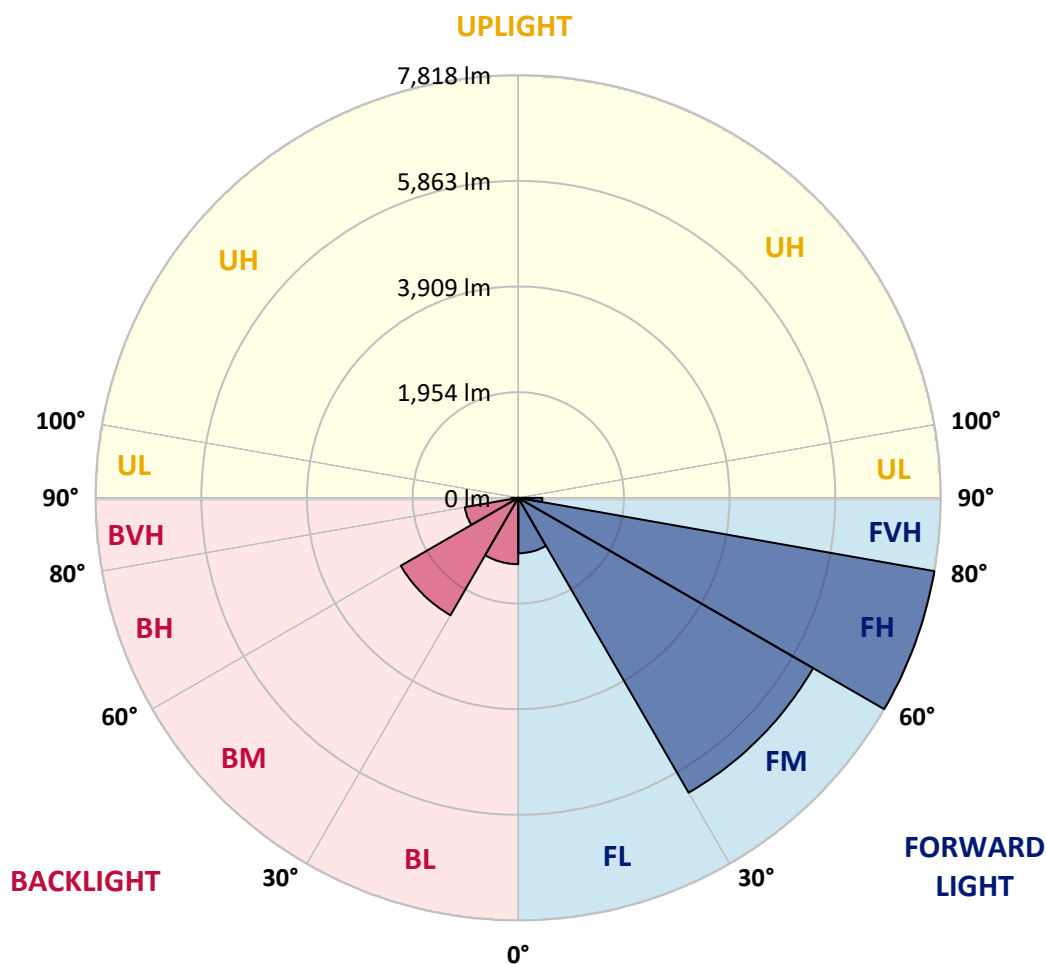
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1025.8	5.0			
FM	(30°-60°)	6299.0	30.8			
FH	(60°-80°)	7817.6	38.2			G4/12000
FVH	(80°-90°)	444.8	2.2			G3/500
BL	(0°-30°)	1226.7	6.0	B3/2500		
BM	(30°-60°)	2508.2	12.3	B3/5000		
BH	(60°-80°)	1003.6	4.9	B3/2500		G3/2500
BVH	(80°-90°)	129.3	0.6			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2725.8	2725.8	2725.8	2725.8	2725.8	2725.8	2725.8	2725.8	2725.8	2725.8	2725.8
2.5°	2513.4	2528.9	2535.5	2532.3	2548.9	2546.6	2569.9	2598.6	2638.4	2677.1	2733.5
5°	2319.9	2336.5	2350.9	2364.2	2396.2	2406.2	2442.7	2497.9	2570.9	2645.0	2737.9
7.5°	2139.7	2154.0	2176.2	2200.5	2254.7	2264.6	2325.4	2411.7	2513.4	2621.8	2750.1
10°	1992.6	2007.0	2030.2	2057.9	2125.3	2137.4	2214.9	2329.9	2462.6	2599.7	2763.4
12.5°	1929.6	1934.0	1947.3	1975.0	2033.5	2041.3	2126.5	2258.0	2412.8	2583.1	2783.3
15°	1926.3	1935.1	1936.2	1950.6	1999.3	2002.5	2081.1	2211.5	2381.9	2579.8	2813.1
17.5°	1959.5	1966.1	1956.1	1964.9	2005.9	2011.5	2073.4	2189.4	2372.0	2594.2	2864.0
20°	2048.0	2053.5	2023.6	2011.5	2041.3	2045.7	2106.5	2203.9	2381.9	2624.0	2933.7
22.5°	2235.9	2239.2	2166.2	2116.4	2118.7	2120.9	2173.9	2262.4	2420.5	2678.2	3022.1
25°	2528.9	2526.7	2410.6	2314.4	2259.1	2246.9	2282.4	2357.5	2485.8	2750.1	3136.0
27.5°	2871.7	2855.1	2739.0	2595.3	2474.8	2457.0	2449.3	2481.4	2578.7	2845.2	3275.3
30°	3258.8	3243.3	3118.4	2930.4	2763.4	2734.6	2661.6	2645.0	2716.9	2974.5	3468.8
32.5°	3683.3	3673.4	3524.2	3296.3	3073.0	3039.8	2917.0	2872.9	2929.2	3170.3	3738.7
35°	4039.4	4030.6	3906.7	3672.3	3399.2	3358.3	3233.3	3183.5	3212.2	3421.2	4091.4
37.5°	4361.2	4356.8	4250.7	4066.0	3784.0	3734.2	3593.8	3577.2	3571.7	3751.9	4519.3
40°	4659.8	4648.7	4538.1	4440.8	4231.8	4186.5	4062.7	4048.2	4006.2	4158.8	5003.6
42.5°	4990.4	4961.6	4801.3	4756.0	4699.6	4662.0	4587.9	4590.1	4497.2	4617.7	5516.8
45°	5260.2	5243.6	5078.9	5052.3	5113.1	5097.6	5161.8	5178.4	4998.1	5098.8	6049.8
47.5°	5550.0	5534.5	5395.1	5376.3	5541.0	5545.5	5772.2	5777.7	5486.9	5598.5	6583.8
50°	5907.1	5884.9	5746.8	5769.9	5954.6	5971.2	6385.9	6348.3	5936.9	6106.1	7113.5
52.5°	6142.6	6155.8	6126.0	6163.6	6415.8	6431.3	6989.7	6893.4	6382.6	6607.0	7633.2
55°	6316.3	6342.8	6435.7	6521.9	6902.2	6917.7	7559.2	7412.1	6751.9	7071.5	8122.0
57.5°	6539.6	6502.0	6675.6	6843.7	7364.5	7405.4	8113.1	7911.9	7079.3	7471.7	8457.1
60°	6860.3	6833.8	6968.7	7217.4	7882.0	7947.2	8699.2	8361.9	7319.2	7789.2	8522.3
62.5°	7510.5	7444.2	7465.2	7685.1	8534.5	8620.7	9360.4	8754.5	7438.6	7913.0	8172.8
65°	8482.5	8368.6	8262.4	8415.0	9453.4	9538.4	10106.8	9062.9	7394.4	7673.0	7245.1
67.5°	9706.5	9593.8	9463.3	9607.0	10806.8	10874.2	11028.0	9236.6	7046.1	6748.6	5605.2
70°	10716.2	10674.1	10830.0	11421.7	12968.6	12970.9	12209.0	9092.9	6091.8	4784.7	3243.3
72.5°	10582.3	10556.9	11378.5	13207.4	15693.3	15634.6	13326.8	8004.7	4103.6	2158.4	1215.2
75°	8681.5	8846.3	10119.0	13175.4	16671.9	16664.1	12642.5	5088.8	1697.4	894.6	628.1
77.5°	4655.3	4916.3	6569.4	9727.6	13015.0	13210.8	8888.3	1780.3	728.7	572.8	434.6
80°	1518.2	1746.0	2618.5	4952.8	8457.1	8420.6	3809.4	698.8	498.7	405.8	300.7
82.5°	644.6	671.2	1169.9	2338.7	4340.2	4272.7	1213.1	401.4	350.5	277.6	185.7
85°	252.2	282.0	516.4	1081.5	1879.8	1839.0	437.9	199.1	224.5	181.3	110.6
87.5°	82.9	100.7	184.7	370.4	585.0	564.0	107.2	68.6	97.3	82.9	39.8
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°	2725.8	2725.8	2725.8	2725.8	2725.8	2725.8	2725.8	2725.8	2725.8	2725.8	2725.8
2.5°	2748.9	2766.7	2787.7	2818.6	2845.2	2867.3	2890.5	2904.8	2910.4	2927.0	2925.9
5°	2768.8	2807.6	2859.5	2910.4	2960.2	2990.0	3016.6	3029.8	3042.0	3050.8	3053.1
7.5°	2802.0	2851.9	2933.7	3000.0	3042.0	3066.3	3084.0	3079.6	3084.0	3086.3	3089.6
10°	2830.8	2900.4	2997.8	3060.9	3092.8	3094.0	3089.6	3074.1	3066.3	3067.4	3069.7
12.5°	2865.1	2942.5	3047.5	3100.6	3109.4	3085.1	3066.3	3039.8	3029.8	3025.4	3023.2
15°	2911.5	3000.0	3101.8	3121.6	3099.5	3068.5	3036.5	2993.3	2971.3	2953.5	2959.1
17.5°	2967.9	3065.3	3143.8	3129.3	3081.8	3030.9	2979.0	2913.8	2868.4	2849.6	2850.7
20°	3046.4	3133.8	3175.8	3112.8	3040.9	2963.5	2875.0	2795.4	2753.4	2734.6	2732.3
22.5°	3141.5	3225.6	3206.8	3084.0	2982.3	2858.4	2747.8	2689.3	2668.3	2655.0	2657.2
25°	3255.4	3327.3	3228.9	3042.0	2886.1	2719.1	2633.9	2615.2	2605.2	2595.3	2595.3
27.5°	3403.6	3442.3	3245.5	2980.1	2735.7	2570.9	2540.0	2543.3	2540.0	2523.3	2526.7
30°	3599.3	3591.6	3260.9	2879.4	2563.2	2437.1	2439.4	2453.7	2455.9	2444.9	2450.4
32.5°	3857.0	3778.5	3268.7	2748.9	2398.4	2319.9	2322.1	2337.6	2348.7	2329.9	2338.7
35°	4168.8	3996.3	3256.5	2585.4	2271.3	2208.3	2191.7	2196.1	2199.4	2181.7	2193.9
37.5°	4532.7	4240.6	3202.3	2403.9	2166.2	2098.8	2063.4	2033.5	2015.9	1999.3	2010.3
40°	4931.8	4507.1	3102.8	2227.0	2049.0	1982.7	1929.6	1873.2	1813.5	1791.4	1801.3
42.5°	5349.8	4781.4	2982.3	2057.9	1914.1	1860.0	1803.5	1721.7	1632.1	1586.8	1592.3
45°	5783.3	5062.3	2864.0	1890.9	1775.9	1752.6	1687.5	1589.1	1491.7	1434.2	1429.8
47.5°	6207.9	5327.6	2690.4	1722.8	1646.6	1672.0	1621.0	1530.4	1422.1	1331.4	1321.4
50°	6613.7	5576.4	2406.2	1552.6	1541.5	1647.6	1599.0	1468.5	1344.6	1228.6	1218.6
52.5°	7016.2	5777.7	2042.4	1397.7	1485.0	1641.0	1570.2	1426.5	1275.0	1153.3	1140.1
55°	7357.9	5881.7	1691.9	1265.1	1403.2	1584.5	1536.0	1376.7	1176.6	1047.1	1036.1
57.5°	7552.5	5797.6	1399.9	1134.6	1290.5	1491.7	1477.3	1270.6	1059.3	959.8	946.6
60°	7468.5	5457.0	1161.1	1020.6	1183.2	1391.0	1375.6	1165.5	969.8	875.8	862.5
62.5°	7005.2	4808.0	972.0	921.2	1085.9	1288.2	1273.9	1084.8	901.2	810.6	796.1
65°	6071.9	3911.2	824.9	838.1	987.5	1164.4	1185.4	1017.3	847.1	758.6	744.2
67.5°	4631.1	2833.0	709.9	766.3	891.2	1042.7	1103.6	968.6	801.7	717.6	704.4
70°	2639.5	1608.9	612.6	696.7	806.2	930.0	1040.6	930.0	753.1	683.4	674.6
72.5°	1000.7	738.6	529.7	627.0	724.3	834.9	970.9	869.1	696.7	644.6	635.8
75°	534.1	450.1	445.7	545.2	630.3	742.0	883.6	809.4	654.7	681.1	703.3
77.5°	363.8	318.5	372.7	466.7	527.5	639.2	790.7	718.7	567.2	565.1	520.8
80°	252.2	225.6	303.0	376.0	408.1	537.4	690.0	617.0	462.2	431.2	412.5
82.5°	151.5	147.1	226.7	280.8	288.6	414.7	571.6	517.5	378.2	329.5	331.7
85°	82.9	87.3	144.8	164.7	168.1	289.7	447.8	400.3	290.8	244.4	246.6
87.5°	23.3	29.8	53.1	65.2	80.8	150.4	266.5	237.7	146.0	101.8	101.8
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)