

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: P964144

Luminaire Tested: **NAV-SB3B-760-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964144
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-SB3B-760-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18108.7 lumens
Efficiency: N/A
Efficacy: 165.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 109.2
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

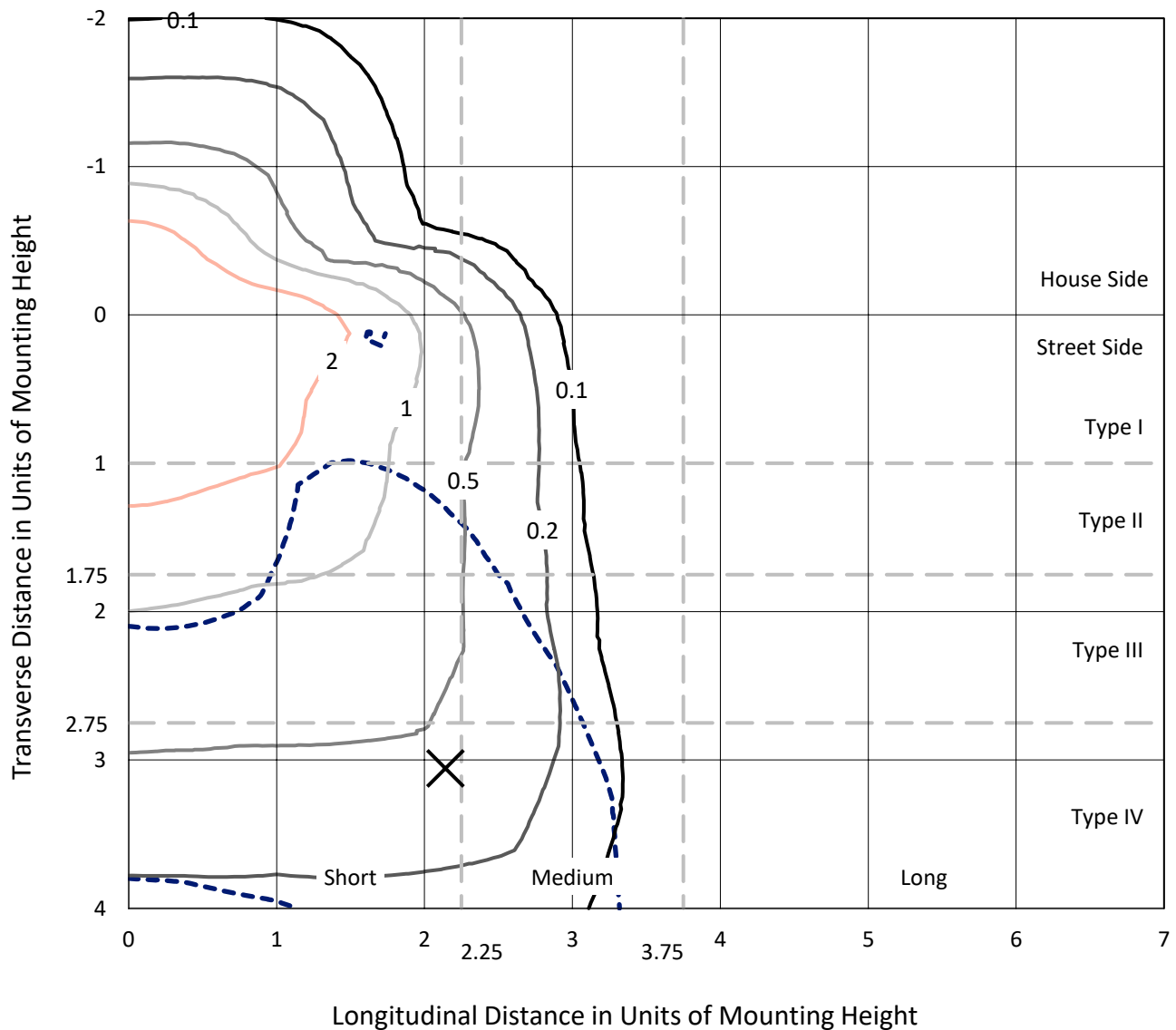


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

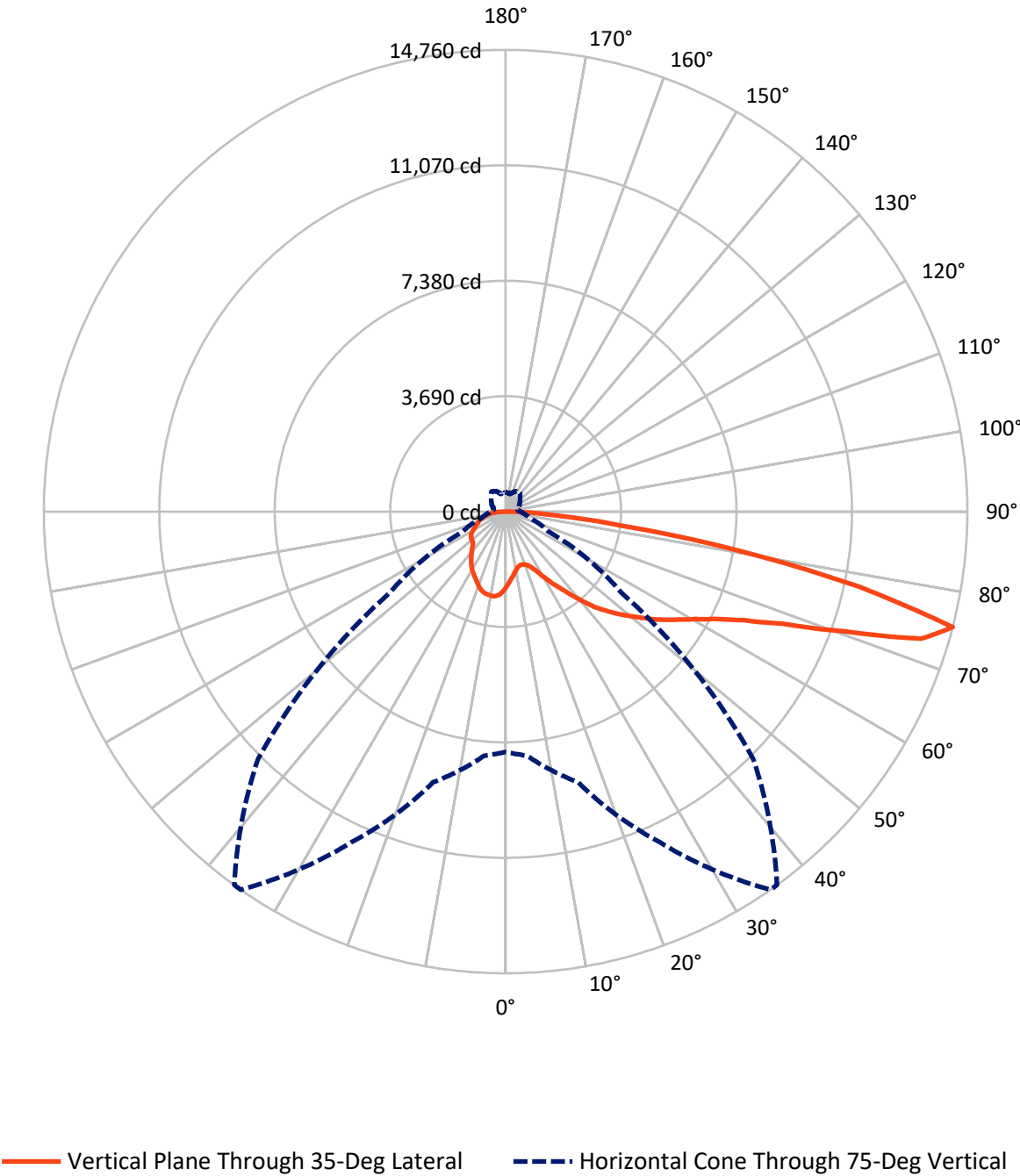


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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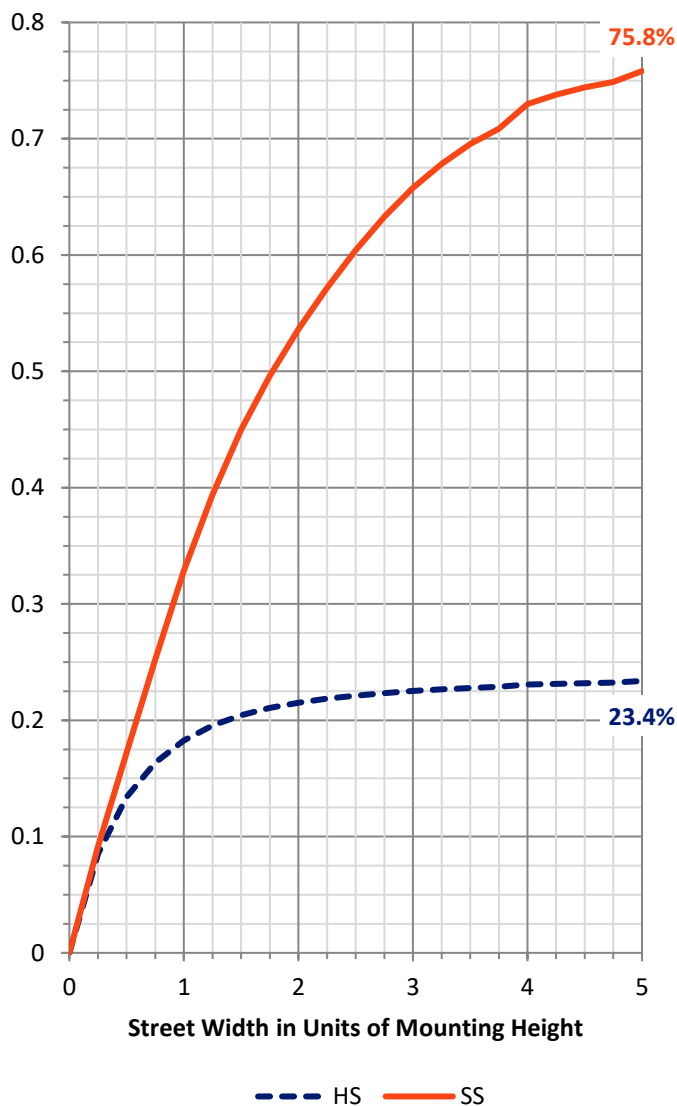
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4309.4	0.0	4309.4
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	13799.3	0.0	13799.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	18108.7	0.0	18108.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.5	1.3
10°-20°	659.0	3.6
20°-30°	1106.7	6.1
30°-40°	1719.9	9.5
40°-50°	2552.8	14.1
50°-60°	3524.3	19.5
60°-70°	4275.7	23.6
70°-80°	3533.6	19.5
80°-90°	508.2	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°	18108.7	100.0
0°-180°	18108.7	100.0

Coefficient of Utilization



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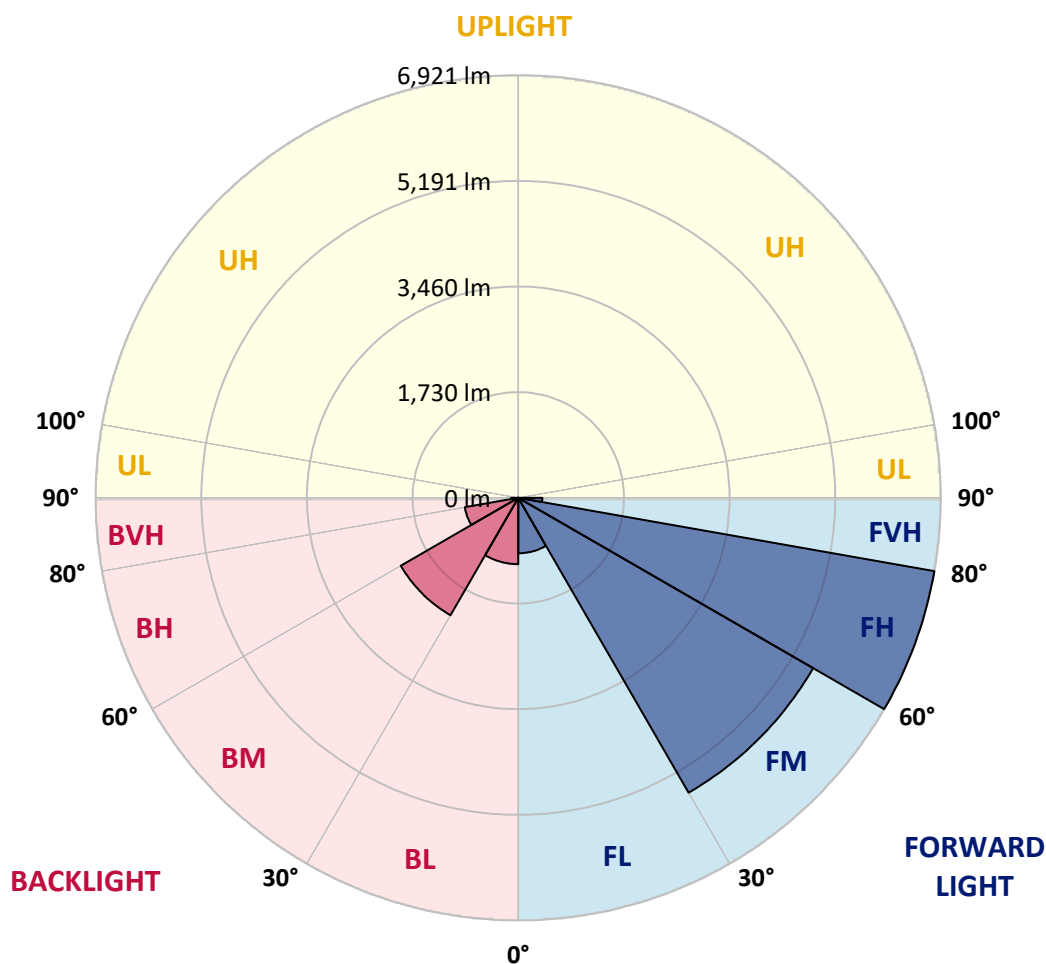
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	908.1	5.0			
FM	(30°-60°)	5576.5	30.8			
FH	(60°-80°)	6920.9	38.2			G3/7500
FVH	(80°-90°)	393.8	2.2			G3/500
BL	(0°-30°)	1086.0	6.0	B3/2500		
BM	(30°-60°)	2220.5	12.3	B2/2500		
BH	(60°-80°)	888.5	4.9	B2/1000		G2/1000
BVH	(80°-90°)	114.4	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1
2.5°	2225.2	2238.8	2244.8	2241.8	2256.4	2254.5	2275.1	2300.5	2335.8	2370.0	2419.9
5°	2053.8	2068.6	2081.3	2092.9	2121.3	2130.2	2162.4	2211.4	2276.0	2341.6	2423.9
7.5°	1894.3	1907.0	1926.6	1948.1	1996.1	2004.9	2058.7	2135.1	2225.2	2321.1	2434.7
10°	1764.0	1776.8	1797.3	1821.8	1881.5	1892.4	1960.8	2062.6	2180.1	2301.5	2446.4
12.5°	1708.3	1712.2	1723.9	1748.4	1800.3	1807.2	1882.5	1999.1	2136.1	2286.8	2464.0
15°	1705.3	1713.2	1714.1	1726.8	1770.0	1772.8	1842.3	1957.9	2108.6	2283.9	2490.4
17.5°	1734.7	1740.6	1731.7	1739.6	1775.8	1780.7	1835.6	1938.3	2099.8	2296.6	2535.4
20°	1813.0	1817.9	1791.5	1780.7	1807.2	1811.1	1864.9	1951.1	2108.6	2323.1	2597.1
22.5°	1979.5	1982.4	1917.8	1873.7	1875.6	1877.6	1924.6	2003.0	2142.9	2371.0	2675.5
25°	2238.8	2236.9	2134.2	2049.0	2000.0	1989.2	2020.6	2087.1	2200.7	2434.7	2776.3
27.5°	2542.3	2527.6	2424.8	2297.5	2190.8	2175.3	2168.4	2196.8	2282.9	2518.8	2899.6
30°	2885.0	2871.2	2760.6	2594.2	2446.4	2420.9	2356.4	2341.6	2405.3	2633.3	3071.0
32.5°	3260.8	3252.0	3119.9	2918.3	2720.5	2691.1	2582.5	2543.3	2593.2	2806.7	3309.8
35°	3576.1	3568.2	3458.7	3251.1	3009.3	2973.0	2862.4	2818.3	2843.9	3028.9	3622.1
37.5°	3861.0	3857.1	3763.1	3599.6	3349.9	3305.9	3181.6	3166.9	3162.0	3321.6	4001.0
40°	4125.3	4115.5	4017.6	3931.5	3746.5	3706.3	3596.6	3583.9	3546.7	3681.8	4429.7
42.5°	4418.0	4392.5	4250.6	4210.5	4160.5	4127.3	4061.7	4063.6	3981.4	4088.1	4883.9
45°	4656.9	4642.1	4496.3	4472.8	4526.6	4513.0	4569.8	4584.4	4424.8	4513.9	5355.8
47.5°	4913.3	4899.6	4776.3	4759.6	4905.5	4909.4	5110.1	5115.0	4857.6	4956.4	5828.7
50°	5229.5	5210.0	5087.6	5108.2	5271.7	5286.3	5653.4	5620.2	5256.0	5405.7	6297.6
52.5°	5438.0	5449.8	5423.4	5456.7	5679.8	5693.6	6187.9	6102.7	5650.5	5849.2	6757.6
55°	5591.8	5615.3	5697.5	5773.8	6110.5	6124.3	6692.1	6561.8	5977.5	6260.4	7190.4
57.5°	5789.5	5756.2	5909.9	6058.7	6519.8	6556.0	7182.5	7004.3	6267.3	6614.7	7487.0
60°	6073.4	6049.9	6169.4	6389.5	6977.9	7035.7	7701.3	7402.8	6479.6	6895.7	7544.7
62.5°	6649.0	6590.2	6608.9	6803.6	7555.5	7631.8	8286.8	7750.3	6585.4	7005.4	7235.4
65°	7509.5	7408.7	7314.7	7449.8	8369.0	8444.4	8947.5	8023.5	6546.3	6792.9	6414.0
67.5°	8593.2	8493.4	8377.8	8505.0	9567.2	9627.0	9763.0	8177.1	6237.8	5974.5	4962.2
70°	9487.0	9449.8	9587.8	10111.5	11481.1	11483.1	10808.5	8049.8	5393.0	4235.9	2871.2
72.5°	9368.5	9346.1	10073.4	11692.6	13893.3	13841.3	11798.3	7086.6	3632.9	1910.9	1075.8
75°	7685.8	7831.6	8958.3	11664.2	14759.6	14752.7	11192.3	4505.1	1502.6	792.0	556.1
77.5°	4121.3	4352.4	5816.0	8611.7	11522.2	11695.5	7868.8	1576.1	645.1	507.1	384.7
80°	1344.1	1545.8	2318.1	4384.7	7487.0	7454.7	3372.5	618.7	441.5	359.3	266.3
82.5°	570.7	594.2	1035.8	2070.5	3842.3	3782.7	1073.9	355.4	310.4	245.7	164.5
85°	223.2	249.6	457.2	957.5	1664.2	1628.0	387.7	176.2	198.7	160.5	97.9
87.5°	73.4	89.1	163.5	327.9	517.8	499.3	94.9	60.7	86.1	73.4	35.3
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°	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1
2.5°	2433.7	2449.3	2467.9	2495.4	2518.8	2538.4	2559.0	2571.7	2576.5	2591.3	2590.3
5°	2451.3	2485.5	2531.5	2576.5	2620.6	2647.1	2670.5	2682.3	2693.1	2700.9	2702.8
7.5°	2480.6	2524.7	2597.1	2655.9	2693.1	2714.6	2730.3	2726.4	2730.3	2732.2	2735.2
10°	2506.1	2567.7	2653.9	2709.7	2738.1	2739.1	2735.2	2721.5	2714.6	2715.6	2717.6
12.5°	2536.5	2604.9	2698.0	2745.0	2752.8	2731.2	2714.6	2691.1	2682.3	2678.4	2676.5
15°	2577.6	2655.9	2746.0	2763.6	2744.0	2716.6	2688.2	2650.0	2630.5	2614.8	2619.7
17.5°	2627.5	2713.7	2783.2	2770.4	2728.3	2683.2	2637.3	2579.5	2539.4	2522.7	2523.8
20°	2697.0	2774.4	2811.6	2755.7	2692.1	2623.6	2545.3	2474.8	2437.6	2420.9	2419.0
22.5°	2781.2	2855.5	2838.9	2730.3	2640.2	2530.6	2432.6	2380.8	2362.2	2350.4	2352.4
25°	2882.0	2945.6	2858.5	2693.1	2555.0	2407.2	2331.9	2315.2	2306.4	2297.5	2297.5
27.5°	3013.2	3047.4	2873.2	2638.2	2421.9	2276.0	2248.6	2251.6	2248.6	2234.0	2236.9
30°	3186.5	3179.7	2886.9	2549.2	2269.2	2157.6	2159.6	2172.3	2174.2	2164.5	2169.3
32.5°	3414.6	3345.1	2893.8	2433.7	2123.3	2053.8	2055.7	2069.5	2079.3	2062.6	2070.5
35°	3690.6	3537.9	2883.0	2288.8	2010.7	1955.0	1940.2	1944.2	1947.1	1931.5	1942.3
37.5°	4012.7	3754.3	2835.0	2128.2	1917.8	1858.0	1826.8	1800.3	1784.6	1770.0	1779.7
40°	4366.1	3990.2	2746.9	1971.6	1813.9	1755.2	1708.3	1658.3	1605.5	1585.9	1594.7
42.5°	4736.1	4232.9	2640.2	1821.8	1694.5	1646.6	1596.6	1524.2	1444.9	1404.8	1409.7
45°	5119.9	4481.6	2535.4	1674.0	1572.1	1551.6	1493.8	1406.7	1320.6	1269.7	1265.8
47.5°	5495.8	4716.5	2381.8	1525.2	1457.7	1480.2	1435.1	1354.8	1258.9	1178.6	1169.8
50°	5855.1	4936.8	2130.2	1374.4	1364.7	1458.7	1415.5	1300.0	1190.4	1087.6	1078.8
52.5°	6211.4	5115.0	1808.1	1237.4	1314.8	1452.7	1390.1	1262.8	1128.7	1021.0	1009.3
55°	6513.9	5207.0	1497.8	1119.9	1242.3	1402.8	1359.8	1218.8	1041.6	927.1	917.3
57.5°	6686.2	5132.6	1239.3	1004.4	1142.5	1320.6	1307.9	1124.8	937.9	849.7	837.9
60°	6611.8	4831.1	1027.9	903.5	1047.4	1231.5	1217.8	1031.8	858.5	775.3	763.6
62.5°	6201.7	4256.4	860.5	815.5	961.3	1140.5	1127.7	960.3	797.9	717.6	704.9
65°	5375.4	3462.6	730.3	742.0	874.2	1030.8	1049.4	900.7	749.9	671.6	658.9
67.5°	4099.8	2508.1	628.5	678.4	789.0	923.1	977.0	857.5	709.7	635.3	623.6
70°	2336.8	1424.3	542.3	616.7	713.6	823.3	921.2	823.3	666.7	605.0	597.2
72.5°	885.9	653.9	468.9	555.0	641.2	739.1	859.6	769.5	616.7	570.7	562.9
75°	472.8	398.4	394.5	482.6	558.0	656.9	782.2	716.6	579.5	603.0	622.6
77.5°	322.1	282.0	329.9	413.1	467.0	565.8	700.0	636.3	502.2	500.2	461.0
80°	223.2	199.7	268.2	332.8	361.2	475.8	610.9	546.2	409.2	381.8	365.1
82.5°	134.1	130.2	200.7	248.7	255.5	367.2	506.1	458.2	334.8	291.7	293.7
85°	73.4	77.4	128.2	145.9	148.8	256.5	396.5	354.3	257.5	216.4	218.3
87.5°	20.6	26.4	46.9	57.7	71.4	133.1	236.0	210.4	129.3	90.1	90.1
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)