

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: P965696

Luminaire Tested: **NAV-SB4A-750-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4A-750-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

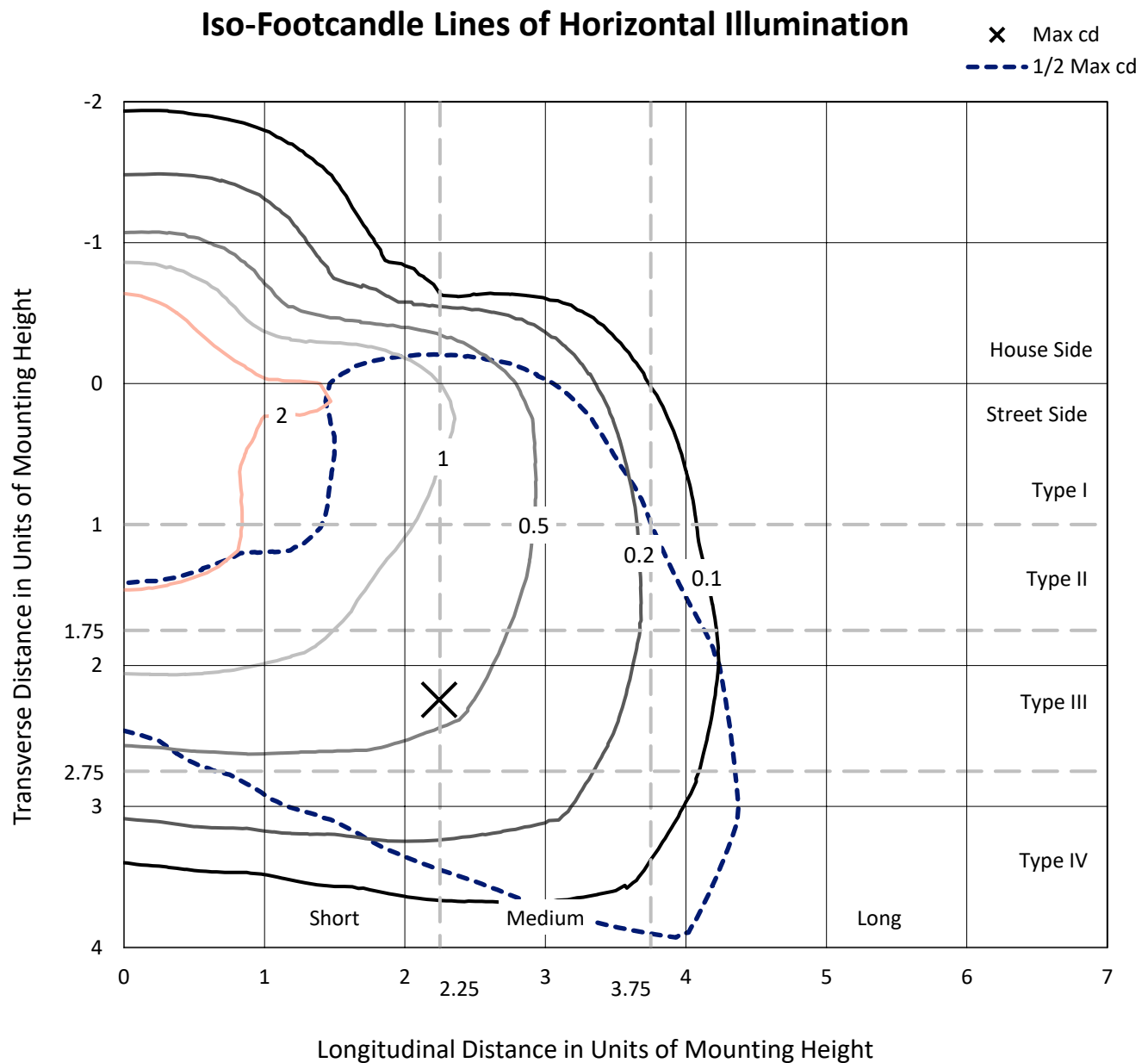
Lumens per Lamp: N/A
Luminaire Lumens: 19457.5 lumens
Efficiency: N/A
Efficacy: 170.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 114
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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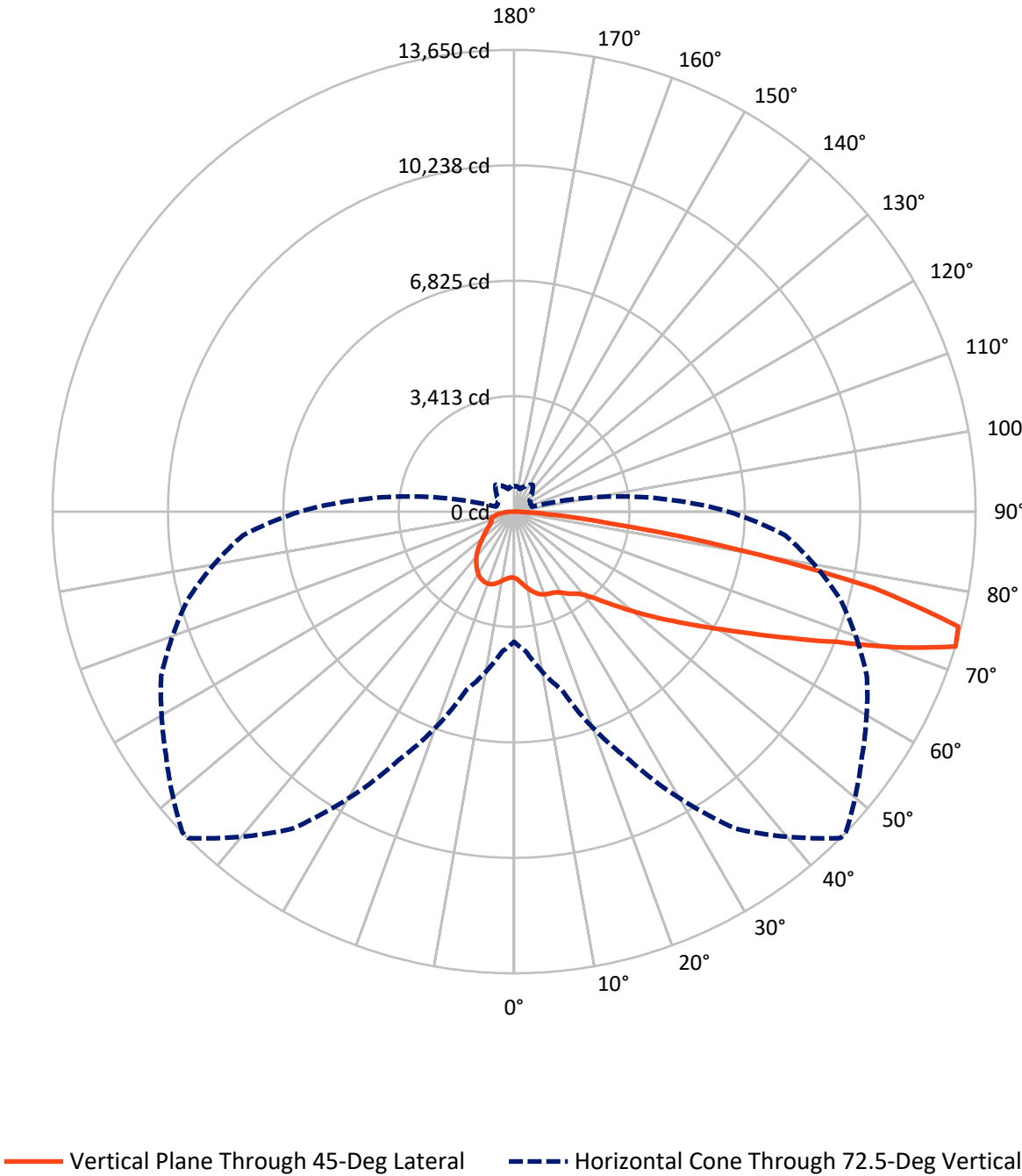
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Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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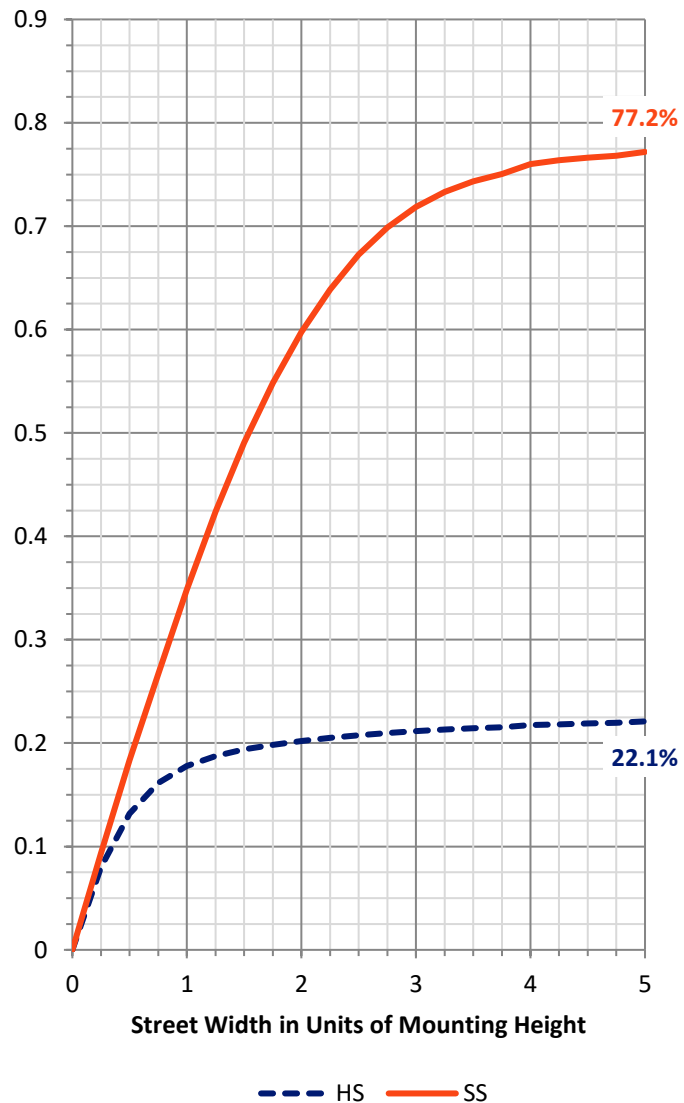
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4398.6	0.0	4398.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	15058.9	0.0	15058.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	19457.5	0.0	19457.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.8	1.0
10°-20°	666.1	3.4
20°-30°	1158.7	6.0
30°-40°	1661.1	8.5
40°-50°	2338.9	12.0
50°-60°	3582.5	18.4
60°-70°	5189.9	26.7
70°-80°	4144.4	21.3
80°-90°	516.2	2.7
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°	19457.5	100.0
0°-180°	19457.5	100.0

Coefficient of Utilization



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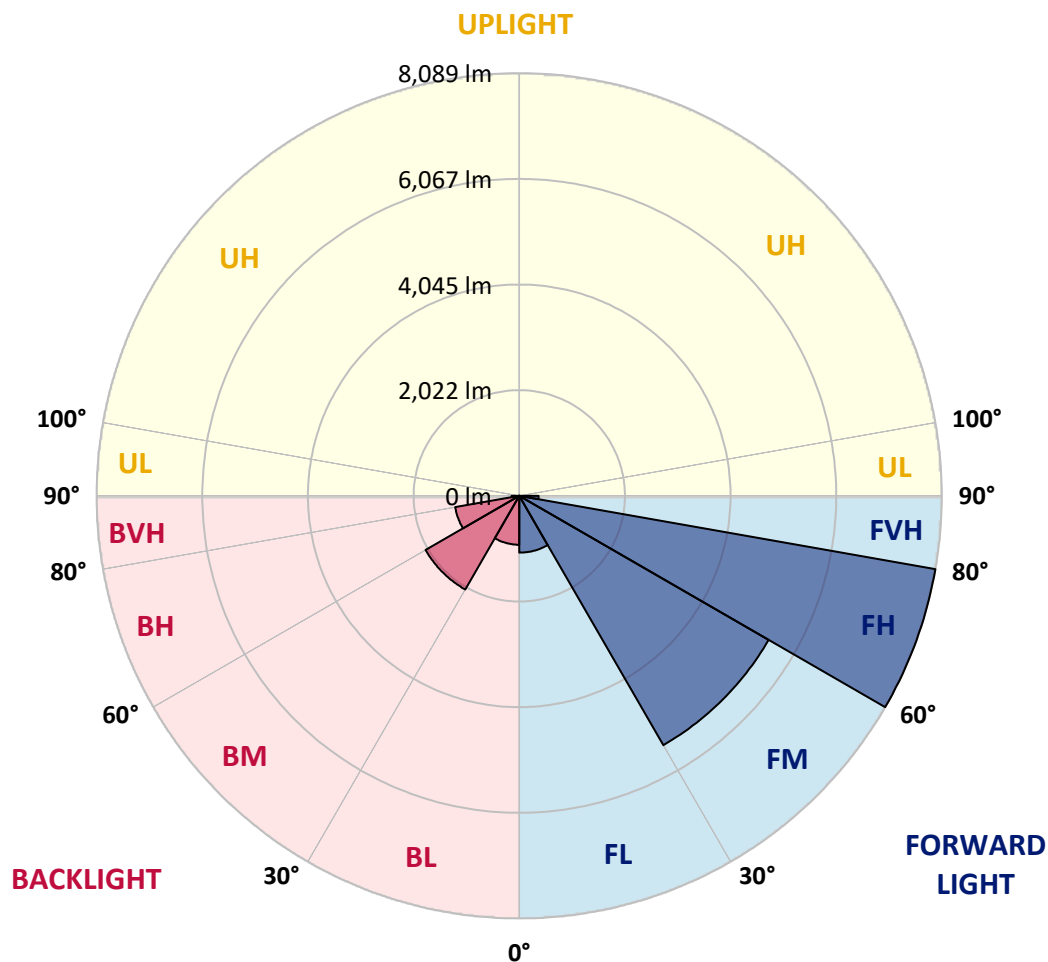
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1088.1	5.6			
FM	(30°-60°)	5511.4	28.3			
FH	(60°-80°)	8089.1	41.6			G4/12000
FVH	(80°-90°)	370.3	1.9			G3/500
BL	(0°-30°)	936.5	4.8	B2/1000		
BM	(30°-60°)	2071.1	10.6	B2/2500		
BH	(60°-80°)	1245.1	6.4	B3/2500		G3/2500
BVH	(80°-90°)	145.9	0.7			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°	45°	46°	55°	65°	75°	85°
0°	1962.9	1962.9	1962.9	1962.9	1962.9	1962.9	1962.9	1962.9	1962.9	1962.9	1962.9
2.5°	2039.7	2053.1	2040.8	2029.5	2024.4	2011.0	2010.0	2001.8	1996.7	1982.4	1978.2
5°	2182.2	2199.6	2179.1	2156.6	2136.1	2103.3	2099.2	2075.6	2049.0	2018.2	2000.8
7.5°	2343.1	2358.5	2335.0	2301.1	2265.2	2210.9	2209.9	2166.8	2124.8	2072.5	2042.8
10°	2483.6	2504.1	2472.3	2426.2	2381.1	2319.6	2312.4	2263.2	2209.9	2142.2	2097.1
12.5°	2607.6	2622.0	2591.2	2534.8	2482.5	2421.0	2411.8	2357.5	2298.0	2221.2	2163.8
15°	2706.0	2724.4	2683.4	2623.0	2567.6	2507.1	2499.0	2449.8	2390.3	2309.3	2235.5
17.5°	2770.6	2786.0	2743.9	2676.3	2623.0	2572.8	2566.6	2525.6	2473.3	2391.3	2312.4
20°	2795.2	2811.6	2767.5	2698.8	2649.6	2610.7	2607.6	2577.9	2542.0	2467.2	2387.2
22.5°	2819.8	2835.1	2777.7	2706.0	2663.0	2638.4	2637.3	2617.8	2603.5	2542.0	2464.1
25°	2919.2	2923.3	2846.4	2742.9	2681.4	2659.9	2658.8	2657.8	2664.0	2615.8	2547.1
27.5°	3005.3	3004.3	2938.7	2841.3	2746.0	2700.9	2699.8	2710.1	2729.6	2689.6	2633.2
30°	3131.4	3120.1	3042.2	2940.7	2853.6	2783.9	2777.7	2768.5	2783.9	2752.1	2719.3
32.5°	3398.9	3363.0	3237.0	3056.5	2942.8	2889.5	2881.3	2823.9	2830.0	2810.5	2794.1
35°	3782.2	3735.1	3567.0	3275.9	3053.5	2977.6	2973.5	2900.7	2888.4	2871.0	2877.2
37.5°	4238.4	4180.0	3984.2	3593.6	3244.1	3080.1	3074.0	3008.4	2958.1	2939.7	2974.5
40°	4696.5	4622.8	4460.8	3981.1	3525.0	3251.3	3231.8	3132.4	3075.0	3044.2	3118.0
42.5°	5141.4	5079.9	4941.5	4415.7	3871.4	3501.4	3458.4	3288.2	3245.1	3216.4	3349.7
45°	5535.0	5479.6	5378.2	4880.0	4277.3	3841.7	3799.7	3521.9	3508.6	3508.6	3701.3
47.5°	5854.8	5842.5	5734.9	5353.6	4756.0	4229.2	4156.4	3846.8	3882.7	3938.0	4200.4
50°	6209.4	6175.6	6060.8	5820.0	5318.7	4673.0	4613.5	4245.5	4379.8	4531.5	4922.0
52.5°	6535.5	6554.0	6425.7	6305.8	5954.2	5168.0	5063.5	4716.0	5006.1	5257.2	5767.7
55°	6870.7	6871.7	6835.8	6819.4	6620.6	5715.4	5600.6	5281.8	5743.1	6054.7	6753.8
57.5°	7185.4	7187.4	7240.7	7385.2	7393.4	6346.8	6216.6	5976.8	6562.2	6879.9	7770.6
60°	7466.2	7480.6	7626.1	7964.4	8073.0	7070.6	6947.6	6797.9	7408.8	7728.6	8839.7
62.5°	7560.5	7612.8	7936.7	8417.4	8744.4	7958.2	7837.3	7748.1	8298.5	8595.8	9733.5
65°	7400.6	7520.5	8146.8	8791.5	9435.2	9012.9	8893.0	8795.6	9223.1	9502.9	10467.4
67.5°	7008.0	7162.8	8134.5	9184.1	10273.7	10281.9	10170.2	9941.6	10214.2	10321.9	10706.2
70°	5973.7	6205.3	7418.0	9330.7	11236.2	12017.2	11909.6	11321.2	11203.4	10682.7	10033.8
72.5°	3848.9	4160.5	5462.2	8124.3	11450.4	13650.0	13643.9	12566.6	11516.0	9981.6	8047.4
75°	1404.2	1594.9	2537.9	5099.4	9611.5	13567.0	13607.0	12353.4	10512.5	7710.2	5013.3
77.5°	511.5	559.6	828.2	1959.8	5911.2	10885.6	10968.6	9876.0	7482.6	3869.4	1986.4
80°	268.5	295.2	424.4	760.6	2532.8	6464.8	6595.0	5869.2	3516.8	1165.4	595.5
82.5°	148.6	160.9	237.8	413.1	1140.8	2764.4	2842.3	2318.5	1237.2	494.0	246.0
85°	79.9	85.1	111.7	225.5	557.6	958.4	979.9	692.9	493.0	290.1	118.9
87.5°	23.6	28.7	36.9	71.8	218.3	215.2	220.4	137.4	194.7	146.6	38.9
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°	1962.9	1962.9	1962.9	1962.9	1962.9	1962.9	1962.9	1962.9	1962.9	1962.9	1962.9
2.5°	1972.1	1969.0	1957.7	1952.6	1946.5	1945.4	1950.6	1951.6	1952.6	1953.6	1957.7
5°	1990.5	1980.3	1970.0	1963.9	1966.0	1967.0	1977.2	1984.4	1989.5	1993.6	1995.7
7.5°	2026.4	2018.2	2000.8	1999.8	2002.8	2012.1	2025.4	2041.8	2051.0	2058.2	2060.2
10°	2079.7	2064.4	2043.8	2046.9	2053.1	2066.4	2094.1	2107.4	2122.8	2136.1	2133.0
12.5°	2134.0	2120.7	2097.1	2099.2	2109.4	2133.0	2159.7	2176.1	2186.3	2196.6	2200.7
15°	2204.8	2181.2	2155.6	2155.6	2174.0	2199.6	2212.0	2225.3	2231.4	2242.7	2246.8
17.5°	2277.5	2246.8	2213.0	2210.9	2233.5	2245.8	2253.0	2255.0	2257.0	2269.4	2273.4
20°	2350.3	2316.5	2268.3	2264.2	2269.4	2267.3	2266.3	2264.2	2267.3	2282.7	2288.8
22.5°	2422.1	2383.1	2316.5	2298.0	2283.7	2264.2	2263.2	2262.2	2264.2	2279.6	2289.8
25°	2506.1	2459.0	2369.8	2314.4	2266.3	2239.6	2242.7	2243.7	2245.8	2258.1	2274.5
27.5°	2597.4	2545.1	2419.0	2309.3	2222.2	2203.8	2198.6	2201.7	2208.9	2228.4	2247.8
30°	2688.6	2627.1	2464.1	2288.8	2166.8	2141.2	2124.8	2132.0	2154.5	2174.0	2195.5
32.5°	2771.6	2710.1	2500.0	2243.7	2096.1	2056.1	2034.6	2043.8	2066.4	2073.6	2099.2
35°	2869.0	2799.3	2515.4	2172.0	2019.2	1957.7	1929.0	1915.7	1927.0	1919.8	1942.4
37.5°	2977.6	2904.8	2513.3	2077.7	1929.0	1858.3	1818.4	1768.1	1744.6	1720.0	1735.3
40°	3138.5	3034.0	2488.7	1963.9	1817.3	1752.7	1681.0	1595.9	1542.6	1494.4	1497.5
42.5°	3357.9	3213.4	2443.6	1838.8	1691.2	1630.8	1533.4	1434.0	1349.9	1270.0	1262.8
45°	3684.9	3448.1	2387.2	1705.6	1554.9	1495.5	1389.9	1278.2	1182.8	1080.4	1068.0
47.5°	4156.4	3763.8	2333.9	1553.9	1411.4	1357.1	1261.8	1158.2	1045.5	946.1	934.8
50°	4804.2	4216.8	2284.7	1406.3	1270.0	1229.0	1153.1	1047.6	933.8	853.8	848.7
52.5°	5628.3	4832.9	2264.2	1263.8	1137.8	1122.4	1061.9	963.5	855.9	788.2	783.1
55°	6574.5	5569.8	2264.2	1127.5	1021.9	1027.0	985.0	893.8	800.5	740.0	733.9
57.5°	7540.0	6316.0	2223.2	1001.4	923.5	945.0	918.4	838.4	754.4	691.9	681.6
60°	8429.7	6941.4	2057.2	886.6	836.4	870.2	852.8	784.1	681.6	629.3	621.2
62.5°	9113.4	7294.0	1737.4	795.4	764.6	803.6	794.4	712.4	668.3	646.8	639.6
65°	9455.7	7236.6	1328.4	714.4	704.2	764.6	745.2	742.1	707.2	682.6	674.4
67.5°	9245.6	6742.6	963.5	655.0	669.3	728.8	803.6	815.9	751.3	703.2	694.9
70°	8324.1	5848.6	717.5	598.6	625.2	729.8	916.4	853.8	737.0	680.6	671.4
72.5°	6332.4	4361.4	556.6	539.2	567.8	734.9	966.6	836.4	696.0	752.3	746.2
75°	3621.3	2394.4	446.9	466.4	496.1	686.7	941.0	791.3	664.2	690.8	690.8
77.5°	1380.7	920.4	369.0	394.6	398.7	599.6	900.0	788.2	632.4	617.0	562.7
80°	478.7	359.8	305.4	313.6	308.5	533.0	863.0	685.7	517.6	463.3	447.9
82.5°	195.8	179.4	241.9	231.6	219.4	414.1	697.0	560.7	423.3	374.1	370.0
85°	85.1	113.8	159.9	140.4	127.1	287.0	558.6	474.6	357.7	308.5	307.5
87.5°	17.4	43.0	67.6	63.6	65.6	191.7	396.7	337.2	253.2	189.6	148.6
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)