

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: P961426

Luminaire Tested: **NAV-SB2A-740-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961426
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-SB2A-740-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9668.8 lumens
Efficiency: N/A
Efficacy: 168.7 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): 57.3
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



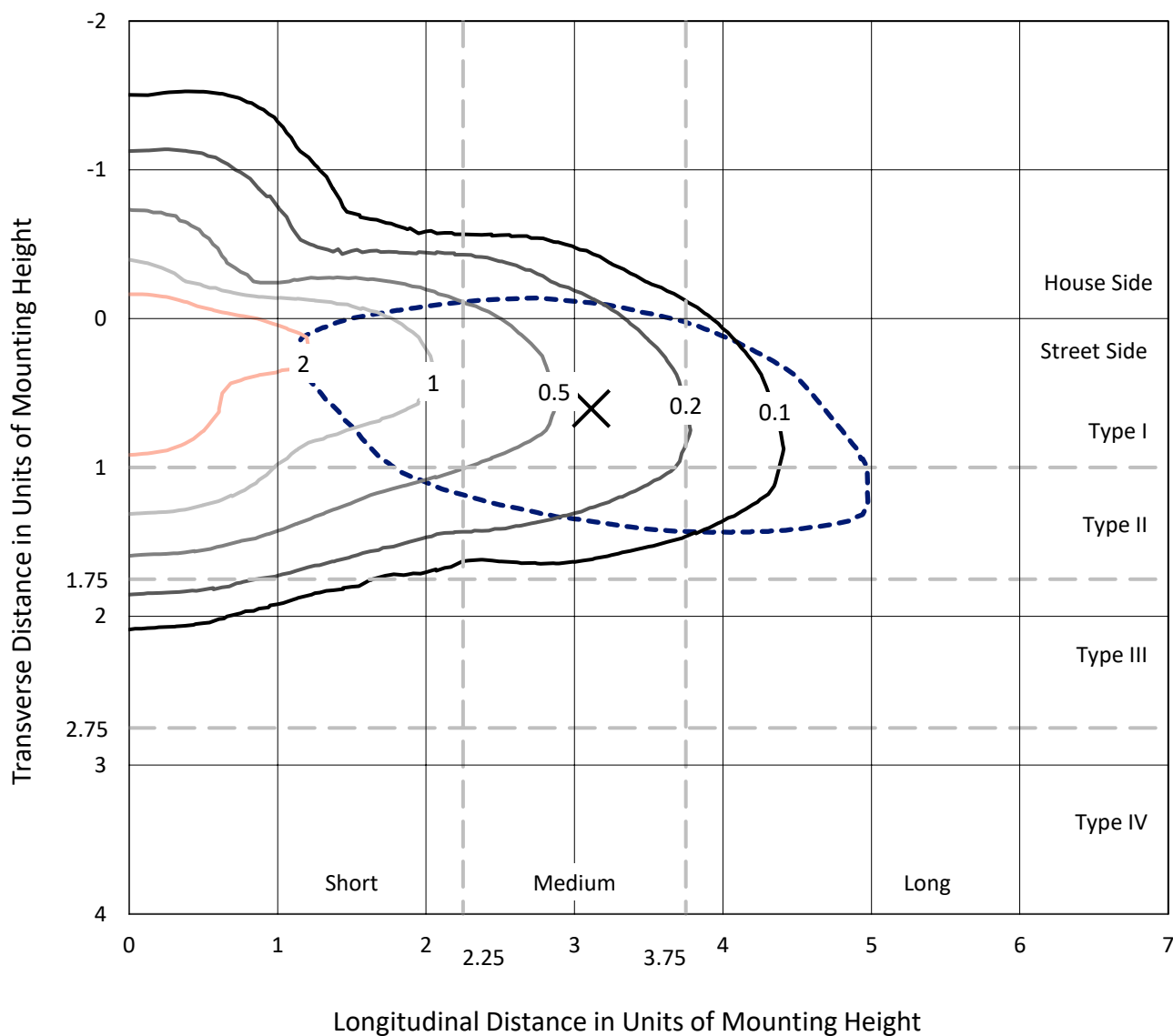
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

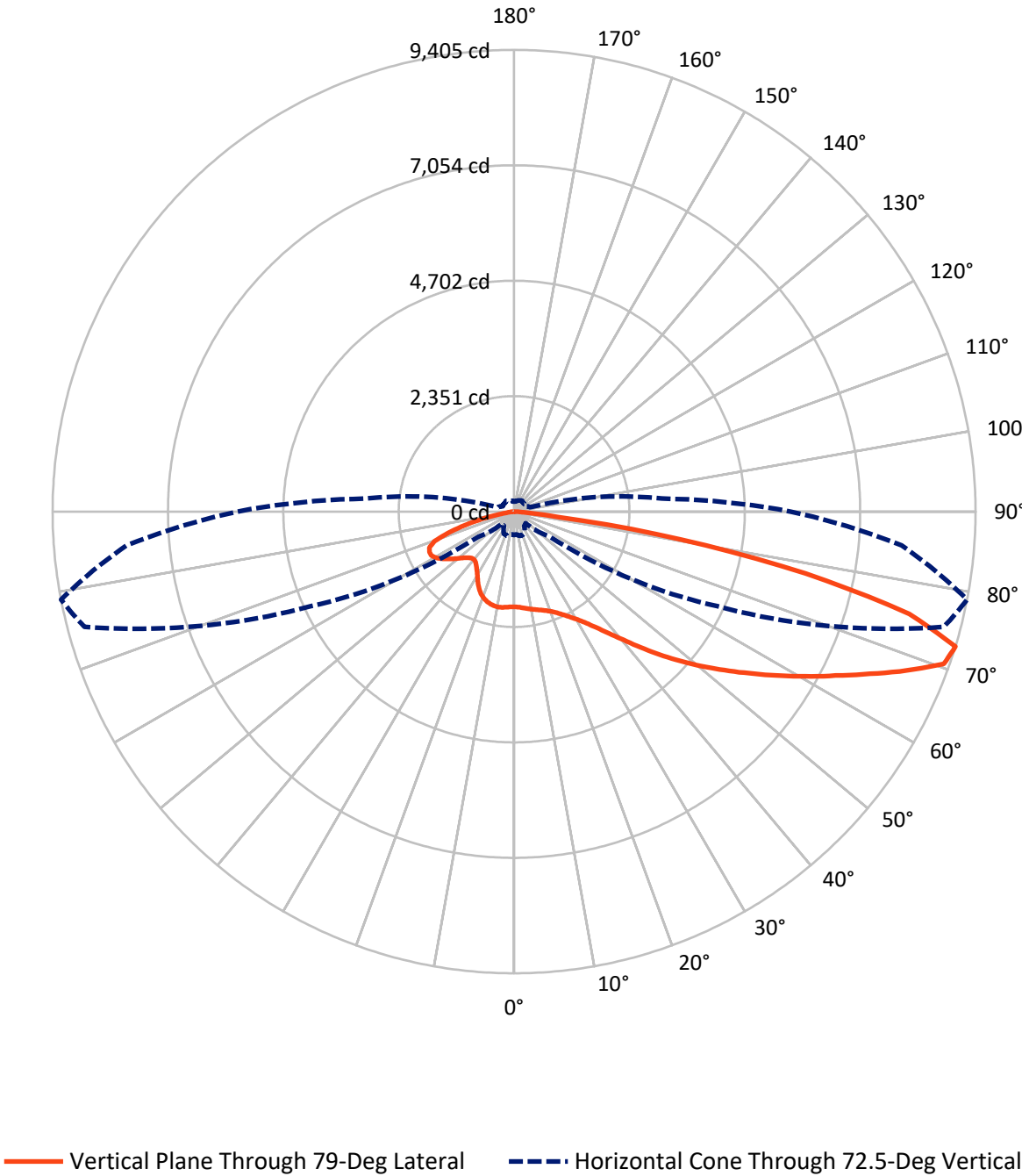
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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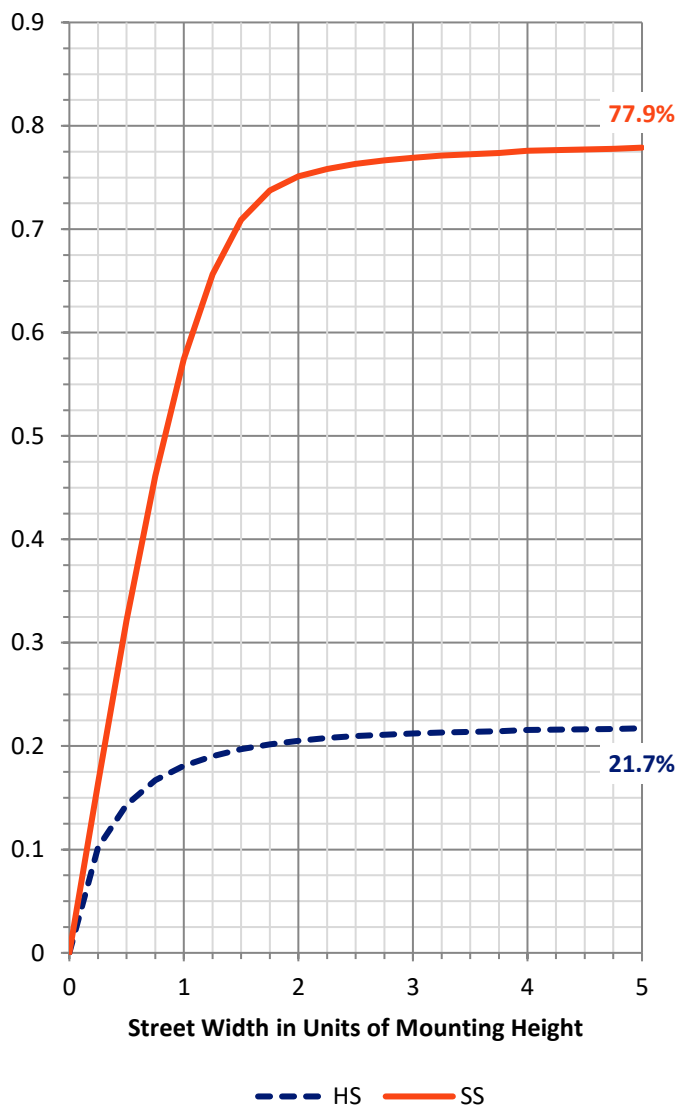
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2127.7	0.0	2127.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	7541.2	0.0	7541.2
	% Fixture	78.0	0.0	78.0
Total	Lumens	9668.8	0.0	9668.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.2	1.8
10°-20°	460.6	4.8
20°-30°	743.3	7.7
30°-40°	1115.5	11.5
40°-50°	1582.4	16.4
50°-60°	1998.4	20.7
60°-70°	2029.7	21.0
70°-80°	1383.3	14.3
80°-90°	179.5	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°	9668.8	100.0
0°-180°	9668.8	100.0

Coefficient of Utilization



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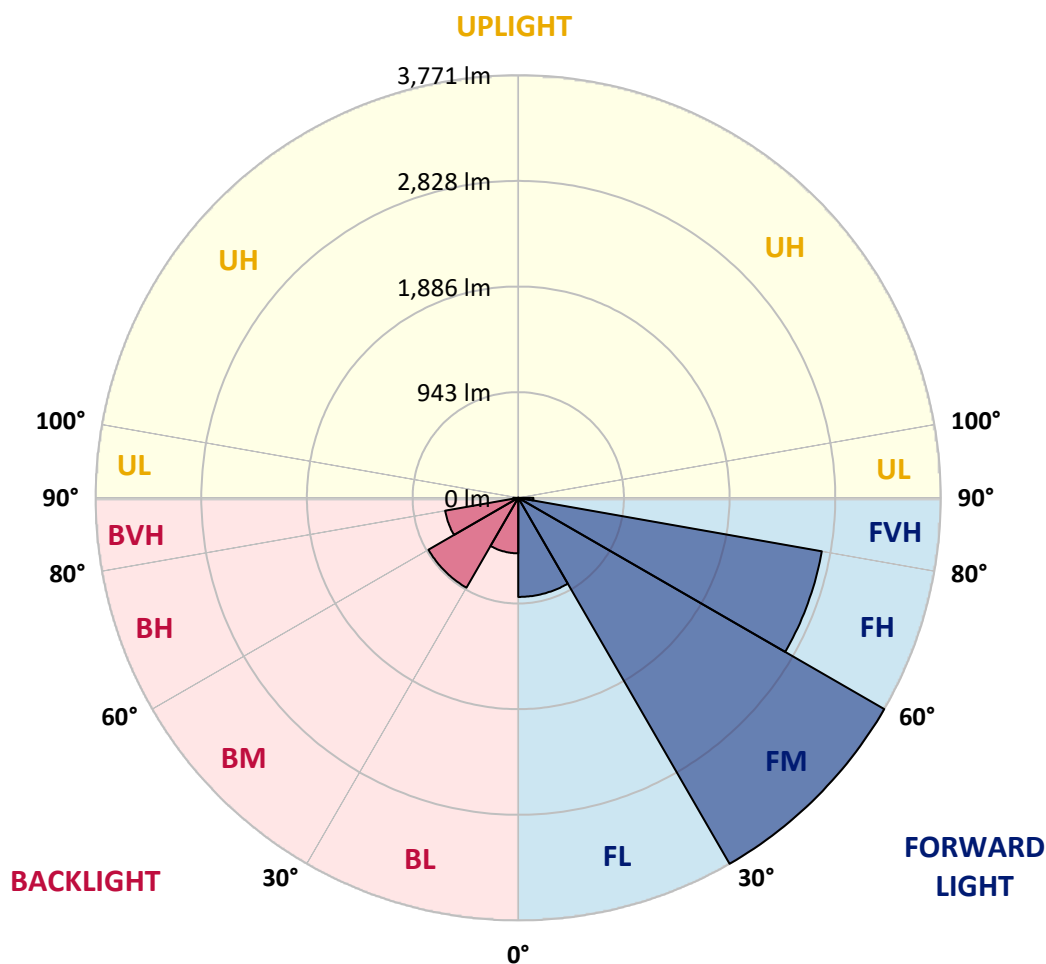
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	884.5	9.1			
FM	(30°-60°)	3771.0	39.0			
FH	(60°-80°)	2750.5	28.4			G2/5000
FVH	(80°-90°)	135.2	1.4			G2/225
BL	(0°-30°)	495.6	5.1	B1/500		
BM	(30°-60°)	925.3	9.6	B1/1000		
BH	(60°-80°)	662.5	6.9	B2/1000		G2/1000
BVH	(80°-90°)	44.3	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°	1940.9	1940.9	1940.9	1940.9	1940.9	1940.9	1940.9	1940.9	1940.9	1940.9	1940.9
2.5°	1942.0	1932.7	1938.4	1936.3	1938.9	1942.0	1943.0	1944.5	1949.7	1949.1	1948.6
5°	1937.9	1928.6	1936.3	1933.8	1940.4	1947.6	1953.8	1959.3	1967.5	1971.1	1966.0
7.5°	1929.2	1923.0	1930.7	1938.4	1950.7	1961.3	1970.0	1982.9	1994.6	1996.7	2000.3
10°	1878.5	1873.9	1891.8	1911.7	1945.6	1974.7	1993.6	2008.4	2021.2	2023.2	2028.4
12.5°	1825.8	1820.2	1840.2	1867.2	1922.0	1974.7	2014.5	2034.0	2045.3	2051.9	2059.5
15°	1817.1	1812.5	1823.8	1847.4	1892.9	1960.8	2028.9	2064.7	2074.4	2082.1	2085.2
17.5°	1859.1	1850.4	1855.0	1863.1	1889.8	1948.1	2040.2	2099.5	2114.3	2122.5	2122.5
20°	1956.3	1944.0	1936.8	1920.4	1915.8	1950.2	2039.1	2141.4	2160.8	2171.1	2173.6
22.5°	2085.7	2077.5	2062.1	2020.7	1975.7	1975.2	2058.5	2195.1	2231.4	2241.2	2235.0
25°	2242.2	2229.9	2210.4	2154.2	2067.7	2024.8	2091.3	2263.6	2324.5	2327.1	2309.1
27.5°	2422.2	2403.8	2377.2	2303.1	2186.4	2102.6	2141.4	2342.4	2431.4	2430.4	2393.6
30°	2611.9	2593.6	2565.4	2475.4	2328.6	2207.3	2210.9	2427.3	2558.2	2552.7	2489.7
32.5°	2750.6	2736.7	2731.1	2661.5	2492.3	2331.2	2290.8	2521.4	2714.7	2709.6	2621.6
35°	2856.9	2839.0	2845.7	2810.3	2670.7	2469.7	2388.5	2633.4	2905.0	2904.4	2795.1
37.5°	2962.2	2946.5	2952.0	2928.5	2836.0	2645.7	2507.6	2770.5	3140.8	3152.0	3004.7
40°	3058.4	3041.6	3064.0	3042.1	2964.3	2832.9	2643.2	2925.5	3413.9	3435.4	3258.4
42.5°	3116.2	3102.9	3140.3	3140.8	3075.8	2991.0	2792.0	3096.3	3730.0	3778.0	3570.4
45°	3136.2	3131.6	3187.9	3199.5	3174.5	3082.5	2926.0	3282.5	4070.6	4156.5	3925.9
47.5°	3114.7	3106.0	3183.8	3227.2	3247.2	3125.4	3037.0	3484.0	4418.4	4544.1	4313.5
50°	3006.2	2989.4	3104.9	3196.6	3267.6	3153.5	3148.9	3716.6	4813.7	4951.3	4703.2
52.5°	2811.4	2798.7	2930.1	3089.1	3222.6	3167.4	3274.8	3970.8	5189.1	5367.1	5102.7
55°	2562.3	2545.5	2690.2	2897.9	3110.6	3162.7	3400.5	4255.2	5632.0	5812.6	5515.4
57.5°	2167.5	2133.7	2316.8	2562.3	2928.0	3157.1	3531.5	4538.0	6082.0	6298.4	5955.8
60°	1591.6	1541.5	1766.0	2057.1	2571.0	3102.4	3693.6	4855.1	6622.1	6817.0	6436.5
62.5°	926.7	897.6	1044.4	1315.9	1937.9	2780.2	3784.7	5223.9	7153.1	7357.7	6909.1
65°	719.6	711.5	724.2	745.2	1078.6	2081.6	3503.9	5583.4	7828.1	7971.3	7401.6
67.5°	658.3	652.1	657.7	618.4	547.2	1159.5	2772.0	5674.5	8551.4	8638.3	7832.7
70°	585.1	577.9	596.3	562.6	430.6	527.3	1791.1	5344.0	9126.7	9289.9	8160.5
72.5°	476.6	468.5	511.5	496.1	362.6	338.6	899.6	4559.0	9066.3	9404.9	7925.8
75°	366.2	361.6	412.8	425.5	295.6	266.5	431.6	3388.9	7978.5	8319.6	6830.8
77.5°	284.3	280.7	306.9	353.4	238.3	206.6	265.5	2149.6	6012.5	6072.4	4707.3
80°	213.3	203.1	227.0	273.6	185.6	150.9	180.0	1253.6	3800.5	3445.1	2048.9
82.5°	133.5	128.3	148.3	182.6	130.9	103.8	117.2	692.5	1523.0	897.1	395.3
85°	76.2	74.2	80.8	104.3	71.1	59.9	67.0	305.9	278.2	191.3	119.2
87.5°	30.6	29.6	36.8	46.5	26.0	22.0	23.6	73.7	61.4	56.8	39.4
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°	1940.9	1940.9	1940.9	1940.9	1940.9	1940.9	1940.9	1940.9	1940.9	1940.9	1940.9
2.5°	1946.6	1946.6	1939.4	1928.1	1915.3	1907.2	1893.9	1890.3	1876.5	1872.4	1879.0
5°	1970.0	1966.0	1944.0	1912.2	1868.8	1828.9	1784.9	1757.4	1718.4	1704.7	1714.8
7.5°	1999.8	1988.5	1950.7	1881.1	1790.1	1700.6	1607.5	1536.9	1469.3	1445.4	1448.4
10°	2026.8	2010.9	1946.6	1824.8	1667.3	1512.3	1364.0	1260.2	1181.4	1149.2	1156.4
12.5°	2054.0	2024.8	1919.4	1731.2	1492.9	1282.7	1124.6	1043.9	995.3	956.4	969.1
15°	2079.5	2038.6	1877.5	1606.0	1301.6	1088.3	971.7	907.3	868.4	842.9	847.5
17.5°	2109.1	2050.4	1814.6	1446.9	1119.5	953.9	858.7	819.8	812.2	809.1	811.2
20°	2150.7	2061.1	1731.7	1268.8	985.5	846.4	797.3	793.8	793.2	791.7	796.8
22.5°	2195.1	2073.9	1622.3	1107.3	871.5	779.4	770.7	763.6	759.0	758.5	764.1
25°	2247.8	2078.0	1485.2	974.8	774.3	747.7	737.5	726.7	723.6	723.6	726.7
27.5°	2299.0	2064.1	1325.6	859.8	719.6	718.6	705.3	701.7	701.2	702.7	706.8
30°	2350.1	2038.1	1167.1	753.4	687.9	687.9	683.3	685.8	687.9	693.0	696.6
32.5°	2419.1	2010.4	1034.6	674.6	660.3	655.2	659.8	664.9	667.0	673.5	679.2
35°	2520.4	1991.1	929.3	631.6	631.6	624.9	627.5	626.5	621.9	618.9	626.0
37.5°	2654.3	1990.0	842.3	611.7	607.6	606.6	607.1	600.4	582.5	561.1	561.6
40°	2815.5	2017.6	775.3	597.9	594.8	601.0	597.9	579.9	530.8	493.5	492.5
42.5°	3031.8	2096.4	732.4	581.0	590.2	597.9	585.6	523.7	490.5	465.5	464.4
45°	3286.6	2224.2	710.4	563.1	581.5	590.7	531.4	504.3	477.6	447.5	445.5
47.5°	3575.0	2385.4	705.3	546.2	562.1	567.7	508.4	496.1	466.0	433.2	430.6
50°	3889.1	2576.1	719.0	526.2	533.9	514.6	500.7	489.4	458.3	426.0	422.4
52.5°	4213.8	2786.4	746.7	499.2	505.8	484.3	497.6	487.9	453.7	410.2	407.1
55°	4533.0	2998.1	773.3	467.5	477.1	457.3	488.9	481.7	432.7	383.6	381.0
57.5°	4857.2	3208.8	799.4	439.3	449.6	431.1	475.1	465.5	409.2	359.1	358.0
60°	5194.2	3413.4	811.7	412.3	419.4	407.1	454.2	437.3	382.5	333.9	332.4
62.5°	5509.8	3583.7	791.7	385.1	389.7	384.6	426.5	404.1	356.0	305.9	305.3
65°	5826.3	3685.0	730.3	358.5	359.6	357.0	387.7	368.3	324.7	281.3	278.2
67.5°	6113.3	3741.8	632.6	329.8	327.3	326.3	351.4	329.3	294.6	256.8	253.7
70°	6174.1	3597.4	483.3	296.1	296.1	293.6	311.5	288.9	261.4	230.6	229.6
72.5°	5639.1	3026.2	343.2	257.8	261.9	256.8	271.6	252.7	227.6	207.2	201.0
75°	4547.2	2219.1	249.6	218.4	225.5	216.9	230.6	217.4	195.9	195.4	175.9
77.5°	3124.4	1372.2	181.0	180.0	185.1	173.8	189.7	182.6	163.2	154.5	144.7
80°	1333.3	547.2	131.9	139.1	139.1	128.8	147.3	149.3	132.4	128.3	128.3
82.5°	265.5	155.5	92.6	95.6	90.0	86.9	104.3	115.6	159.6	177.4	177.9
85°	79.7	57.3	55.8	52.2	46.0	46.5	61.4	116.1	143.2	81.8	70.6
87.5°	22.0	14.3	14.9	11.8	9.7	12.8	21.0	87.9	48.1	20.5	17.4
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)