

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: P962484

Luminaire Tested: **NAV-SB2C-740-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-740-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16099.7 lumens
Efficiency: N/A
Efficacy: 159.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 100.9
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



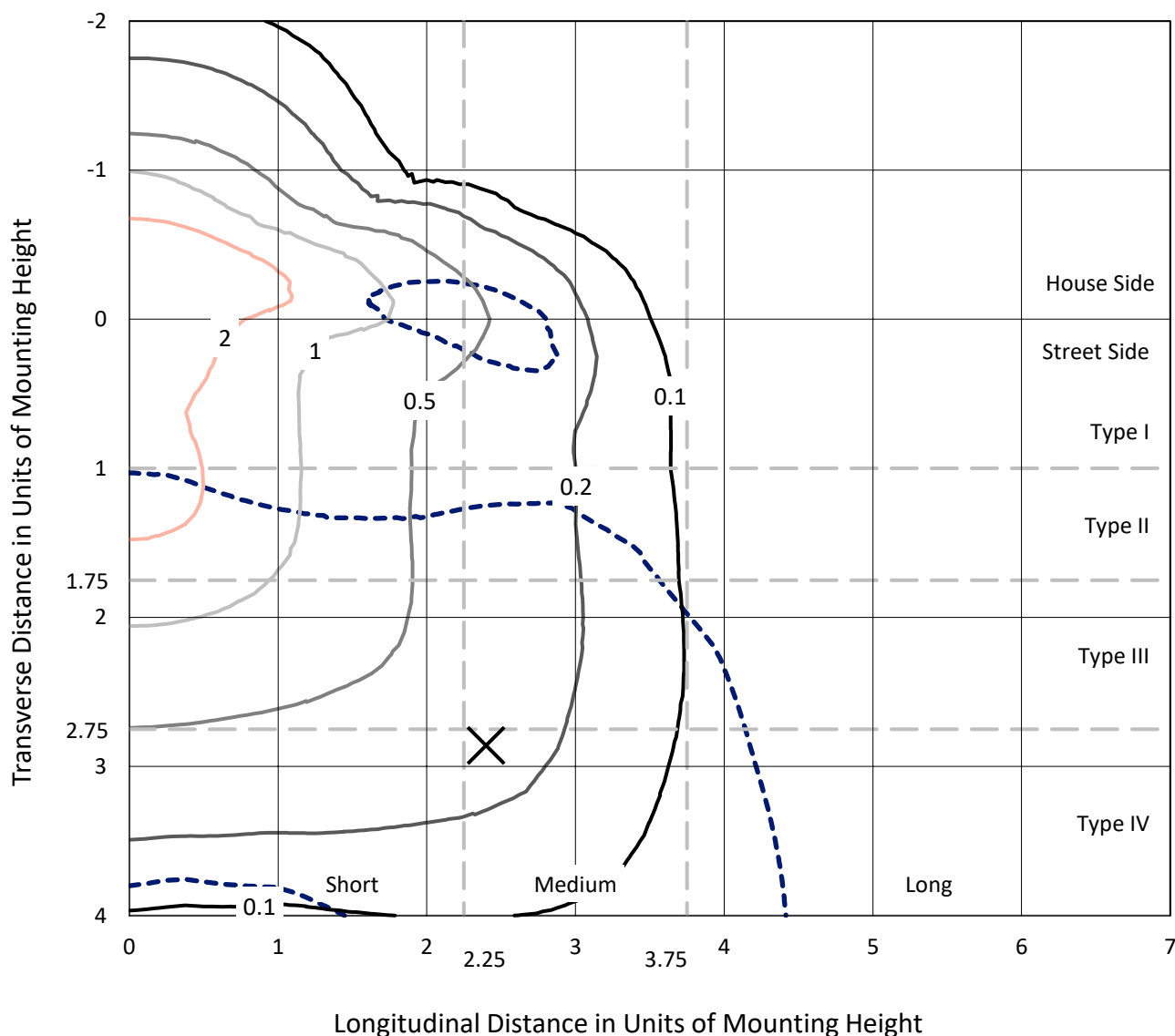
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

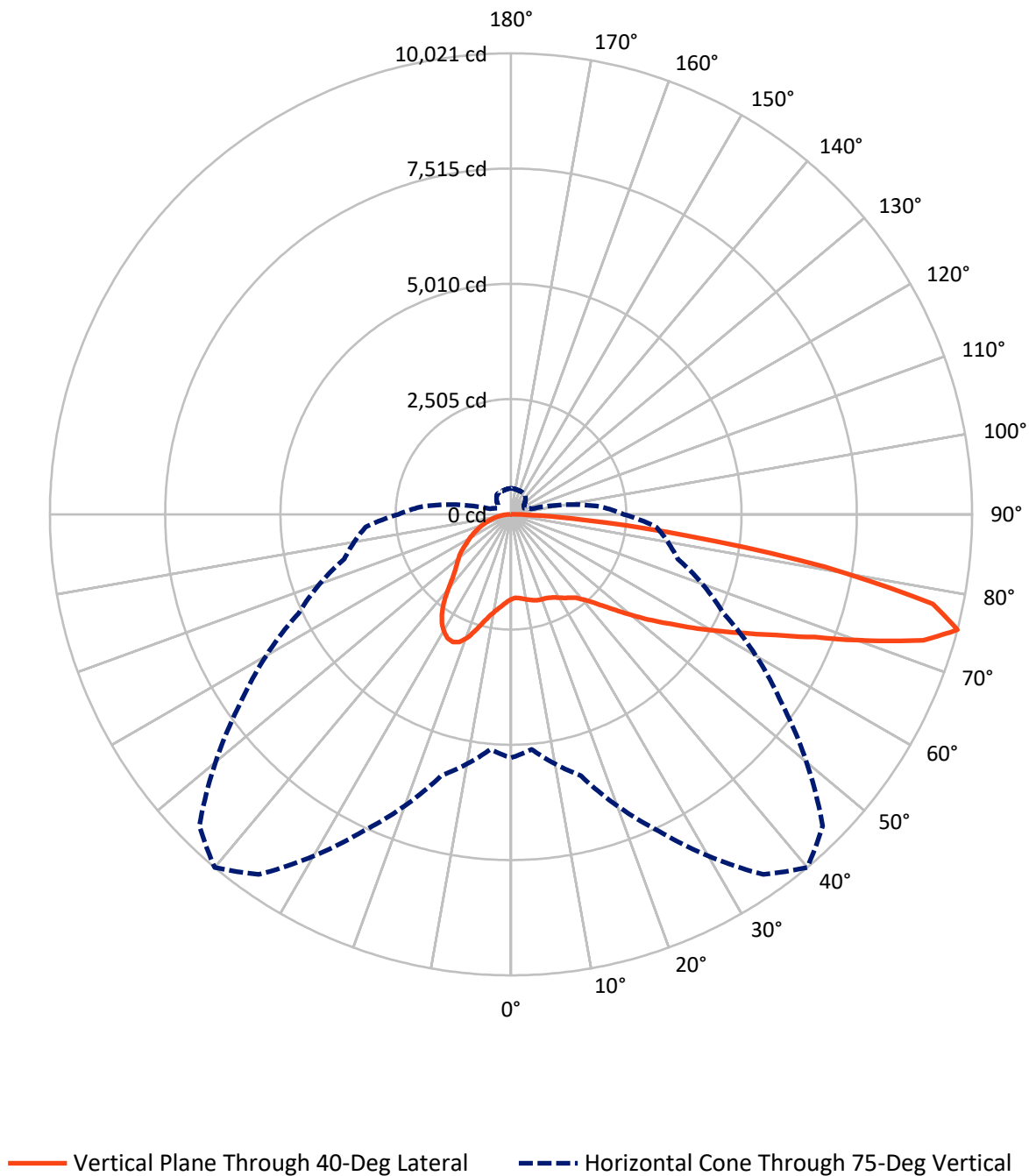
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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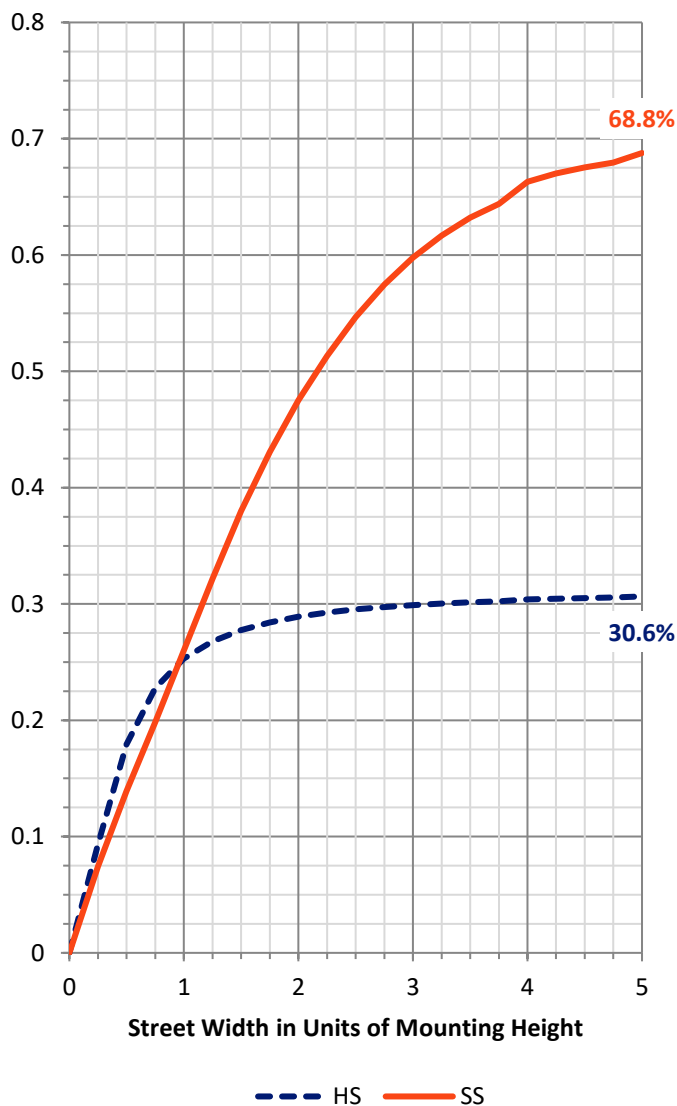
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4988.2	0.0	4988.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	11111.5	0.0	11111.5
	% Fixture	69.0	0.0	69.0
Total	Lumens	16099.7	0.0	16099.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.8	1.1
10°-20°	617.0	3.8
20°-30°	1126.6	7.0
30°-40°	1597.8	9.9
40°-50°	2157.5	13.4
50°-60°	2902.4	18.0
60°-70°	3683.9	22.9
70°-80°	3343.3	20.8
80°-90°	487.4	3.0
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°	16099.7	100.0
0°-180°	16099.7	100.0

Coefficient of Utilization



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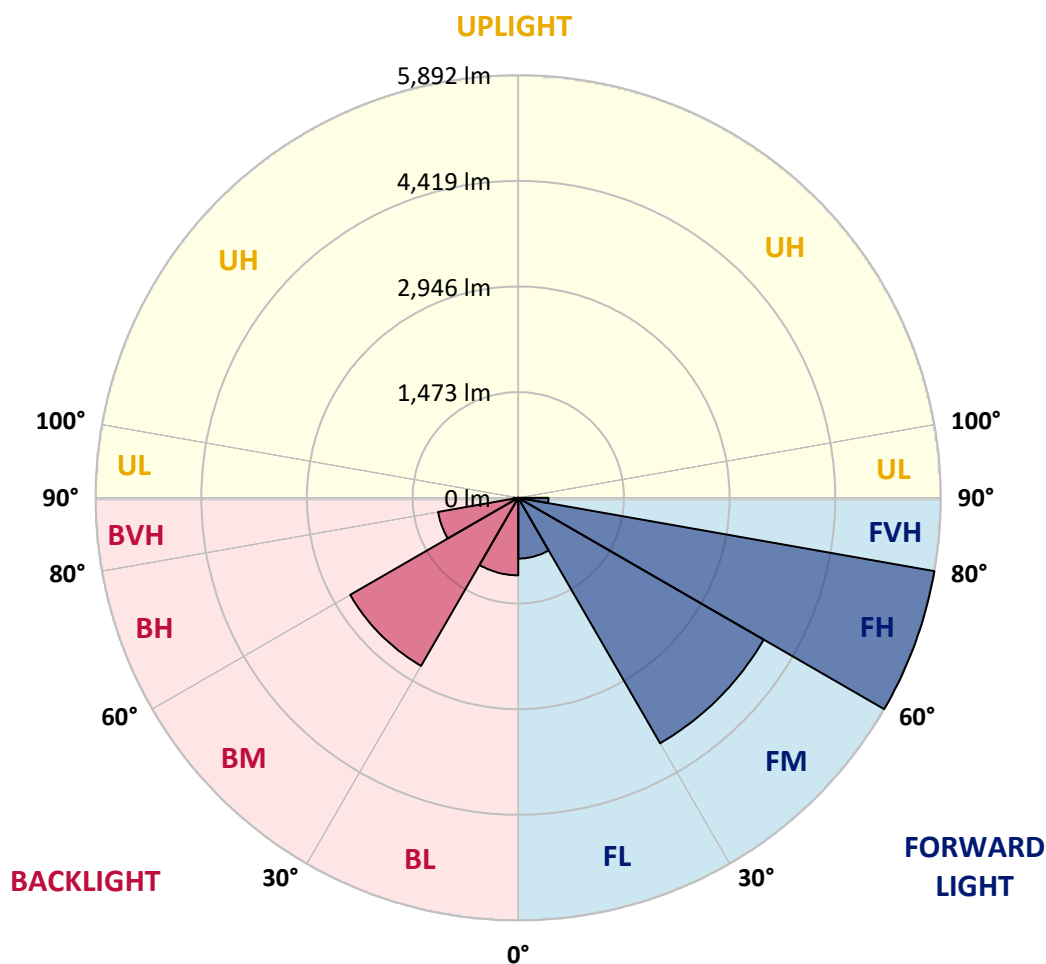
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	846.9	5.3			
FM	(30°-60°)	3952.1	24.5			
FH	(60°-80°)	5892.2	36.6			G3/7500
FVH	(80°-90°)	420.3	2.6			G3/500
BL	(0°-30°)	1080.5	6.7	B3/2500		
BM	(30°-60°)	2705.7	16.8	B3/5000		
BH	(60°-80°)	1135.0	7.0	B3/2500		G3/2500
BVH	(80°-90°)	67.1	0.4			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1841.0	1841.0	1841.0	1841.0	1841.0	1841.0	1841.0	1841.0	1841.0	1841.0	1841.0
2.5°	1812.8	1823.1	1820.5	1817.1	1817.1	1817.9	1817.1	1823.1	1829.1	1835.1	1844.4
5°	1831.7	1841.8	1836.8	1832.5	1829.1	1828.2	1825.6	1824.8	1828.2	1835.9	1848.7
7.5°	1868.4	1878.6	1870.9	1863.2	1856.4	1853.0	1849.5	1844.4	1841.8	1846.1	1864.1
10°	1909.4	1919.6	1910.2	1896.6	1885.4	1881.2	1877.7	1872.6	1869.2	1871.8	1891.4
12.5°	1950.4	1960.5	1947.8	1928.9	1914.5	1911.9	1907.6	1905.9	1905.1	1904.2	1923.8
15°	1988.7	1997.3	1981.0	1958.9	1943.5	1939.2	1935.0	1937.6	1941.8	1946.9	1969.1
17.5°	2018.6	2027.1	2003.3	1974.3	1959.7	1958.0	1955.4	1964.0	1975.9	1988.7	2016.1
20°	2046.0	2054.5	2023.8	1984.5	1967.4	1967.4	1968.2	1986.1	2003.3	2022.0	2059.6
22.5°	2084.3	2091.2	2053.7	1999.9	1975.1	1976.8	1983.6	2001.5	2022.9	2048.6	2100.6
25°	2141.6	2146.8	2100.6	2028.9	2000.7	2005.8	2011.8	2020.4	2040.9	2070.7	2140.7
27.5°	2233.8	2238.1	2177.4	2080.1	2037.4	2046.0	2054.5	2048.6	2057.9	2083.5	2173.2
30°	2363.6	2366.2	2289.3	2160.4	2099.7	2104.0	2105.8	2081.0	2063.0	2083.5	2196.3
32.5°	2517.3	2516.5	2425.0	2257.8	2170.6	2166.3	2151.9	2103.2	2061.4	2079.2	2216.8
35°	2755.5	2746.2	2628.3	2394.4	2250.9	2224.5	2190.2	2127.9	2069.9	2075.0	2234.7
37.5°	3150.0	3121.0	2957.9	2618.1	2370.4	2303.0	2252.6	2168.1	2088.6	2073.3	2256.0
40°	3595.0	3558.2	3378.9	2924.6	2549.8	2441.3	2360.2	2225.3	2119.4	2081.0	2287.6
42.5°	4122.7	4070.6	3877.6	3285.8	2776.9	2619.8	2497.7	2297.8	2164.7	2105.8	2330.3
45°	4770.8	4701.6	4428.3	3693.2	3063.0	2853.7	2690.6	2408.0	2233.8	2153.5	2394.4
47.5°	5425.7	5442.7	5054.3	4159.3	3406.2	3142.3	2932.3	2573.7	2334.5	2230.4	2497.7
50°	6121.6	6133.6	5676.8	4675.9	3795.6	3468.6	3203.8	2759.0	2474.7	2339.7	2652.2
52.5°	6664.8	6666.4	6242.0	5216.5	4201.2	3827.2	3496.8	2970.8	2636.8	2484.9	2858.0
55°	7004.5	7000.3	6638.2	5728.0	4667.4	4203.7	3821.2	3211.5	2834.9	2655.7	3116.7
57.5°	7251.4	7238.6	6911.5	6167.7	5164.5	4648.7	4188.4	3484.8	3069.0	2858.8	3457.4
60°	7345.3	7337.6	7096.8	6547.7	5687.0	5140.5	4612.0	3790.4	3334.5	3098.8	3895.5
62.5°	7381.1	7395.7	7278.7	6915.8	6246.3	5685.3	5077.3	4156.0	3633.3	3370.4	4357.5
65°	7507.5	7534.0	7510.1	7397.4	6878.2	6323.1	5694.7	4590.6	3959.6	3661.5	4839.9
67.5°	7757.7	7784.2	7794.4	7973.8	7650.1	7118.1	6464.9	5132.0	4341.3	3963.8	5202.8
70°	7751.8	7744.1	7925.1	8432.3	8616.8	8218.9	7503.3	5798.0	4796.4	4214.9	5248.9
72.5°	7055.8	6994.3	7422.1	8427.1	9421.2	9368.2	8771.3	6657.1	5189.2	4245.7	4554.7
75°	5293.4	5129.4	5885.1	7594.6	9555.2	10020.6	9577.4	7189.9	5096.1	3751.2	3169.7
77.5°	2263.7	2098.9	2989.5	5622.1	8551.9	9367.4	8838.0	6272.8	4068.0	2480.6	1556.7
80°	592.7	591.7	903.4	2548.9	5816.0	6917.5	6068.7	4050.9	2324.3	886.3	429.5
82.5°	245.1	239.1	332.2	991.4	2841.8	3881.9	3168.0	1806.9	839.4	240.0	142.6
85°	91.3	90.5	161.4	342.5	1002.4	1601.0	1158.8	462.0	209.2	117.0	64.1
87.5°	25.6	24.8	35.1	118.7	244.3	370.6	198.1	76.0	58.9	46.1	18.8
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°	1841.0	1841.0	1841.0	1841.0	1841.0	1841.0	1841.0	1841.0	1841.0	1841.0	1841.0
2.5°	1846.9	1851.3	1858.9	1864.9	1872.6	1881.2	1893.1	1900.8	1908.4	1913.6	1910.2
5°	1854.6	1864.1	1883.7	1903.3	1926.4	1947.8	1972.5	1990.4	2005.0	2009.2	2010.9
7.5°	1871.8	1887.1	1920.4	1953.8	1990.4	2025.5	2061.4	2092.0	2116.8	2126.3	2127.1
10°	1901.7	1922.2	1969.1	2016.1	2064.8	2118.6	2164.7	2209.1	2244.0	2258.6	2259.4
12.5°	1939.2	1964.8	2026.3	2091.2	2158.6	2233.0	2292.7	2347.4	2390.9	2410.6	2410.6
15°	1987.9	2021.2	2099.7	2186.8	2286.0	2389.3	2465.2	2525.8	2574.5	2598.5	2596.7
17.5°	2040.9	2085.3	2184.3	2315.8	2457.5	2593.4	2682.1	2726.5	2776.9	2800.0	2799.1
20°	2092.0	2146.8	2288.4	2479.8	2668.5	2812.8	2884.5	2896.4	2899.8	2902.4	2909.3
22.5°	2145.0	2218.4	2419.1	2686.4	2888.8	2988.7	2998.9	2947.7	2875.9	2842.6	2852.1
25°	2203.0	2300.4	2589.9	2914.4	3078.3	3090.3	3011.8	2887.0	2751.3	2689.0	2698.3
27.5°	2259.4	2395.2	2794.9	3132.1	3214.9	3110.0	2940.8	2764.1	2600.1	2534.4	2542.1
30°	2315.8	2503.7	3021.1	3322.5	3277.3	3061.3	2829.0	2631.7	2467.0	2397.8	2405.5
32.5°	2373.0	2630.0	3281.5	3460.0	3266.2	2957.9	2689.8	2483.2	2338.0	2265.5	2274.8
35°	2437.9	2785.4	3528.4	3535.1	3191.8	2805.9	2506.2	2305.5	2179.1	2121.1	2133.9
37.5°	2522.4	2982.6	3746.1	3554.0	3062.1	2583.1	2278.3	2095.5	1991.3	1964.8	1983.6
40°	2627.5	3220.0	3912.6	3524.1	2870.0	2312.4	2028.9	1882.8	1824.0	1829.9	1850.4
42.5°	2764.1	3485.6	4029.6	3447.2	2602.7	2033.2	1810.3	1745.4	1773.6	1797.4	1819.7
45°	2941.7	3761.4	4102.2	3316.6	2300.4	1796.6	1681.3	1696.7	1718.1	1720.7	1737.7
47.5°	3168.9	4040.7	4150.0	3119.3	1992.2	1630.1	1599.4	1602.8	1598.5	1580.6	1594.3
50°	3452.3	4312.2	4192.7	2858.0	1730.0	1525.9	1484.9	1473.0	1414.1	1356.0	1363.7
52.5°	3775.1	4561.6	4210.6	2533.5	1525.9	1438.8	1372.3	1297.0	1186.9	1169.0	1175.0
55°	4133.7	4792.1	4164.5	2134.8	1354.3	1327.0	1226.2	1135.7	1123.7	1108.3	1110.9
57.5°	4562.4	5040.6	4070.6	1689.9	1178.3	1196.3	1098.1	1108.3	1087.0	1063.1	1058.8
60°	5031.2	5297.6	3905.8	1284.2	996.5	1033.2	1064.8	1063.9	1058.0	1038.3	1031.6
62.5°	5453.0	5466.7	3581.2	983.7	836.8	906.8	993.1	992.2	987.1	976.0	971.7
65°	5704.1	5441.1	3039.9	774.5	705.3	802.7	895.7	902.6	903.4	902.6	902.6
67.5°	5659.6	5141.4	2297.0	616.5	596.9	696.8	799.3	808.6	815.5	817.2	818.9
70°	5157.6	4483.0	1497.7	491.9	500.4	603.7	707.9	717.3	723.2	730.1	733.5
72.5°	4020.2	3296.1	857.3	397.9	415.8	523.5	617.4	628.4	631.9	644.7	649.8
75°	2449.9	1938.4	462.8	313.3	341.5	447.4	527.7	540.5	546.5	561.9	563.5
77.5°	1164.7	839.4	263.8	244.3	275.0	365.5	445.8	460.2	444.0	452.5	445.8
80°	393.6	311.7	166.6	186.1	210.0	285.2	356.9	371.5	337.3	335.6	332.2
82.5°	137.5	126.4	105.9	123.8	135.8	204.1	269.9	288.6	251.0	250.2	238.2
85°	53.8	51.2	58.9	67.4	81.1	125.6	177.6	187.0	154.6	124.6	123.0
87.5°	11.1	12.0	14.6	15.4	24.8	43.6	64.1	78.5	62.3	53.0	48.7
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)