

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: P964239

Luminaire Tested: **NAV-SB3B-835-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964239
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-SB3B-835-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16031 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

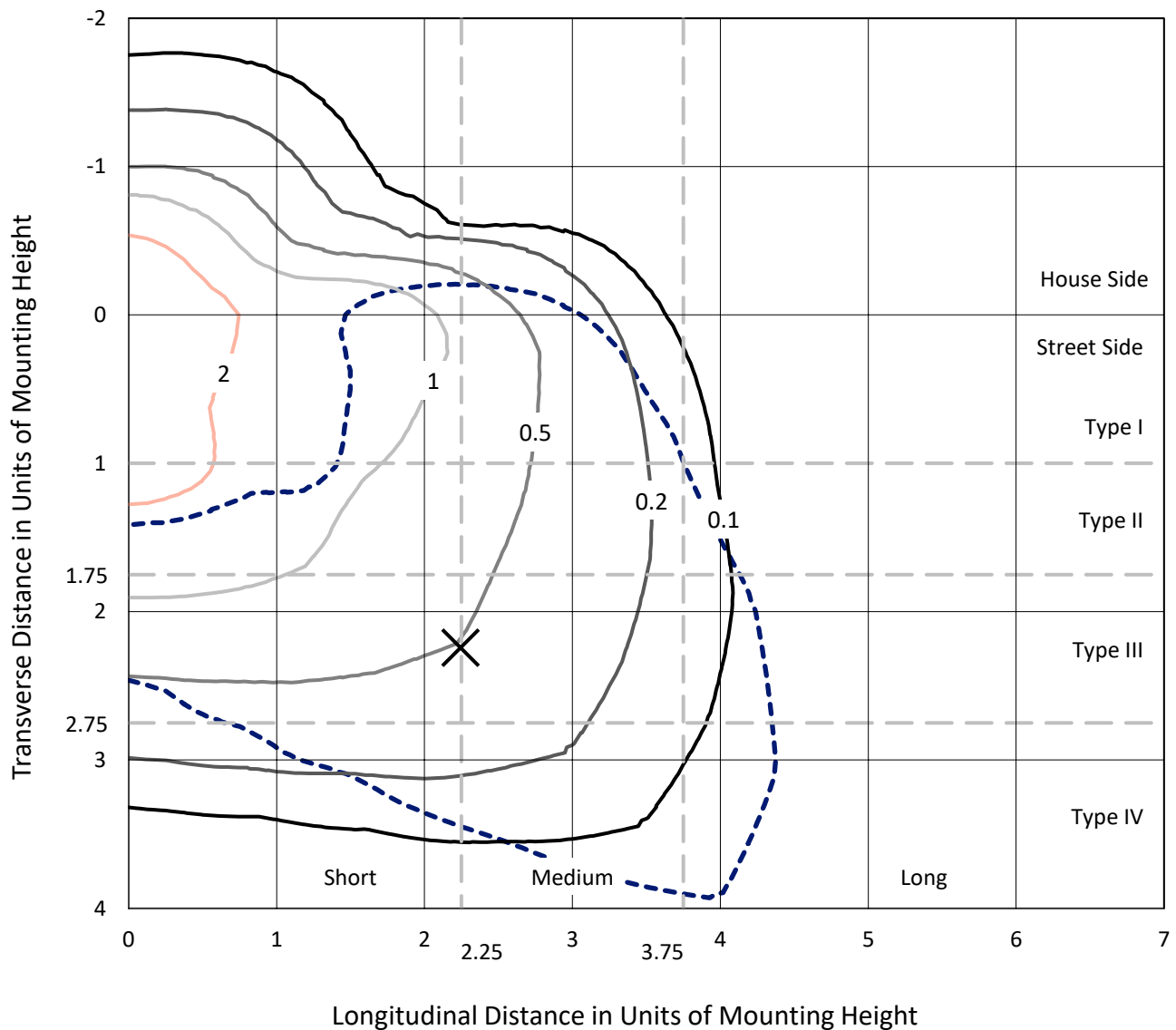
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

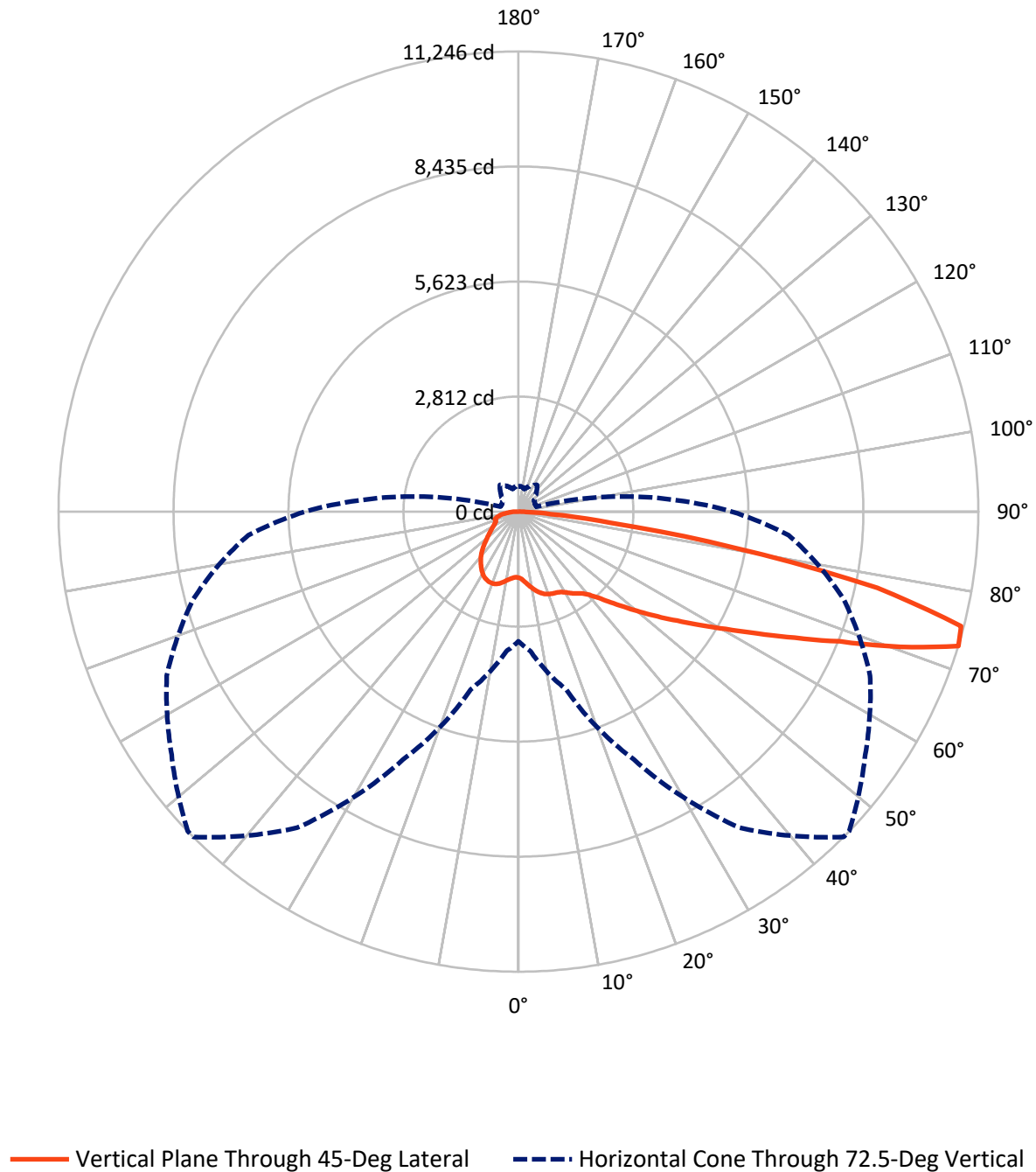
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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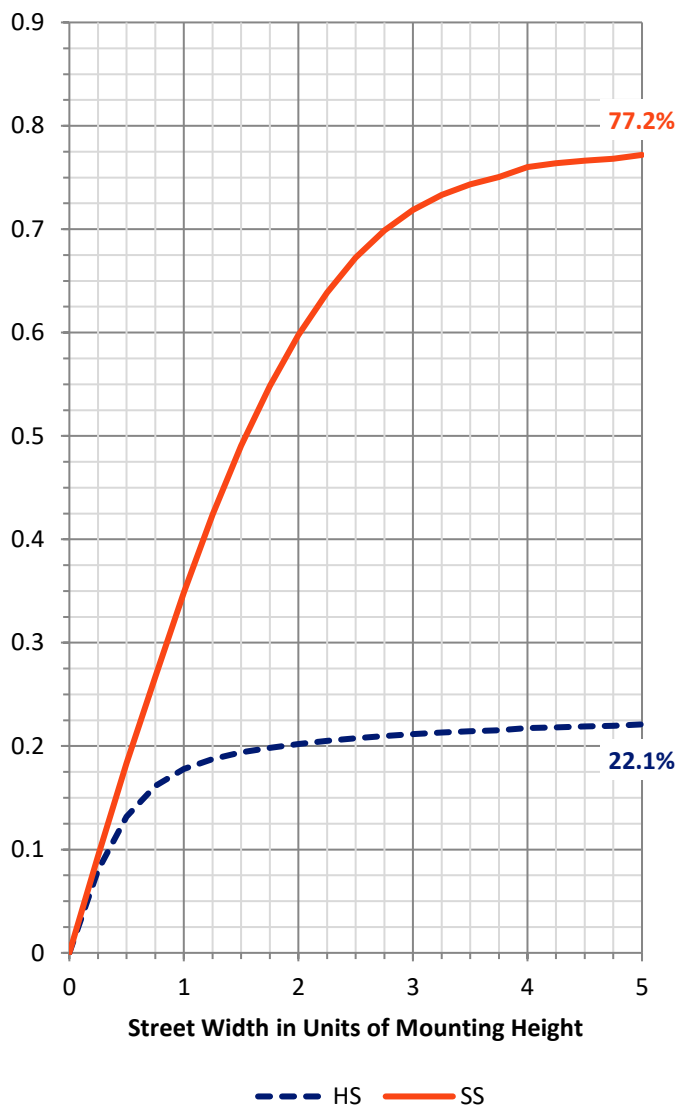
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3624.1	0.0	3624.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	12406.9	0.0	12406.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	16031.0	0.0	16031.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.6	1.0
10°-20°	548.8	3.4
20°-30°	954.7	6.0
30°-40°	1368.6	8.5
40°-50°	1927.0	12.0
50°-60°	2951.6	18.4
60°-70°	4275.9	26.7
70°-80°	3414.5	21.3
80°-90°	425.3	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°	16031.0	100.0
0°-180°	16031.0	100.0

Coefficient of Utilization



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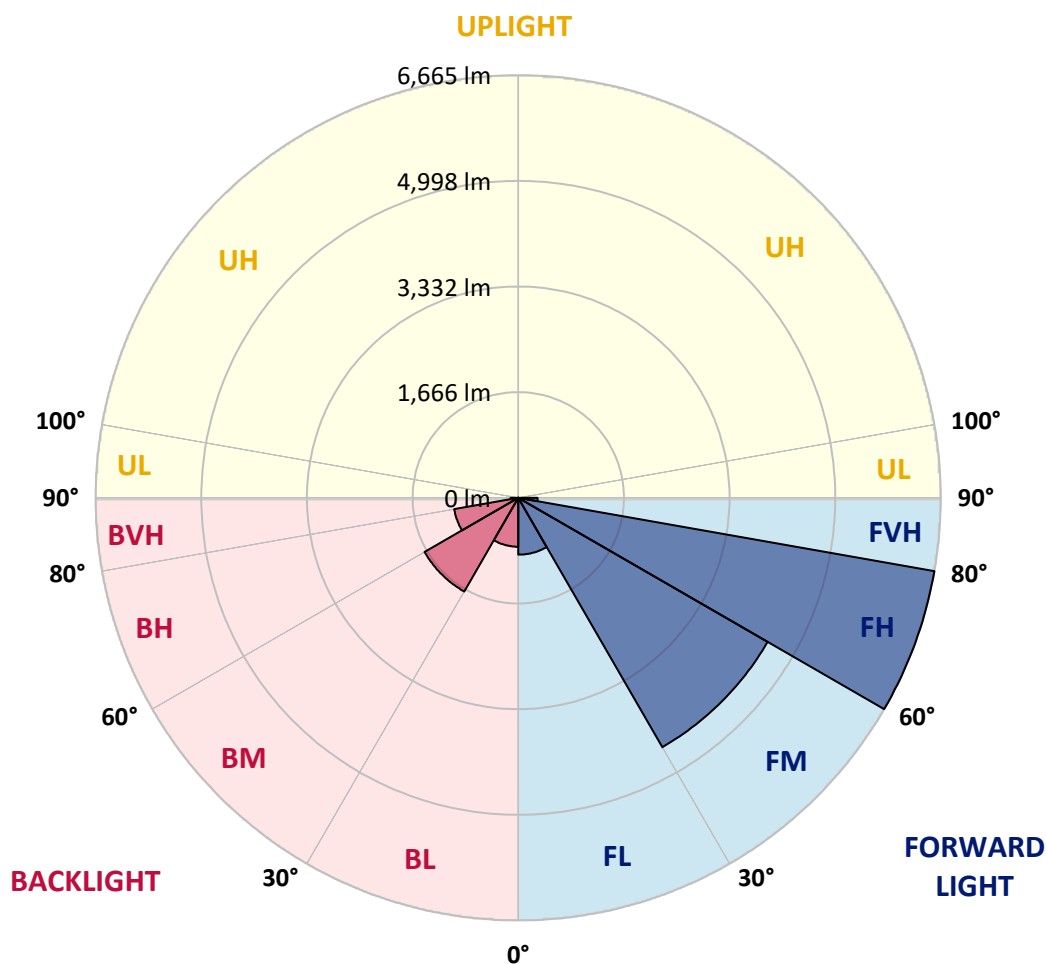
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	896.5	5.6			
FM	(30°-60°)	4540.8	28.3			
FH	(60°-80°)	6664.6	41.6			G3/7500
FVH	(80°-90°)	305.1	1.9			G3/500
BL	(0°-30°)	771.6	4.8	B2/1000		
BM	(30°-60°)	1706.4	10.6	B2/2500		
BH	(60°-80°)	1025.9	6.4	B3/2500		G3/2500
BVH	(80°-90°)	120.2	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1680.6	1691.6	1681.4	1672.1	1667.9	1656.9	1656.1	1649.3	1645.1	1633.2	1629.9
5°	1798.0	1812.3	1795.4	1776.8	1759.9	1732.9	1729.6	1710.1	1688.2	1662.9	1648.5
7.5°	1930.5	1943.2	1923.7	1895.9	1866.3	1821.6	1820.7	1785.2	1750.6	1707.5	1683.0
10°	2046.2	2063.1	2037.0	1999.0	1961.7	1911.1	1905.2	1864.7	1820.7	1765.0	1727.8
12.5°	2148.4	2160.2	2134.9	2088.4	2045.4	1994.8	1987.1	1942.4	1893.4	1830.0	1782.8
15°	2229.5	2244.6	2210.9	2161.1	2115.5	2065.7	2058.9	2018.3	1969.3	1902.7	1841.8
17.5°	2282.7	2295.4	2260.7	2205.0	2161.1	2119.7	2114.6	2080.9	2037.8	1970.3	1905.2
20°	2303.0	2316.5	2280.1	2223.5	2183.0	2151.0	2148.4	2123.9	2094.4	2032.7	1966.9
22.5°	2323.3	2335.9	2288.6	2229.5	2194.0	2173.7	2172.9	2156.8	2145.0	2094.4	2030.2
25°	2405.2	2408.5	2345.2	2259.9	2209.2	2191.4	2190.6	2189.8	2194.8	2155.2	2098.6
27.5°	2476.1	2475.3	2421.2	2341.0	2262.4	2225.3	2224.5	2232.9	2248.8	2215.9	2169.5
30°	2579.9	2570.7	2506.4	2422.9	2351.0	2293.6	2288.6	2281.0	2293.6	2267.5	2240.4
32.5°	2800.4	2770.8	2666.9	2518.3	2424.5	2380.7	2373.9	2326.5	2331.7	2315.6	2302.1
35°	3116.2	3077.4	2938.9	2699.0	2515.8	2453.2	2449.9	2389.9	2379.8	2365.4	2370.5
37.5°	3492.0	3443.9	3282.6	2960.8	2672.8	2537.7	2532.7	2478.7	2437.2	2422.0	2450.8
40°	3869.5	3808.7	3675.2	3280.0	2904.2	2678.7	2662.7	2580.7	2533.5	2508.2	2569.0
42.5°	4236.0	4185.4	4071.3	3638.1	3189.7	2884.8	2849.3	2709.2	2673.7	2650.0	2759.8
45°	4560.3	4514.7	4431.1	4020.7	3524.1	3165.2	3130.6	2901.7	2890.7	2890.7	3049.5
47.5°	4823.8	4813.6	4724.9	4410.8	3918.5	3484.4	3424.4	3169.4	3198.9	3244.5	3460.7
50°	5116.0	5088.1	4993.5	4795.1	4382.1	3850.1	3801.1	3497.9	3608.5	3733.6	4055.3
52.5°	5384.5	5399.7	5294.1	5195.3	4905.6	4258.0	4171.9	3885.6	4124.5	4331.4	4752.0
55°	5660.7	5661.5	5632.0	5618.4	5454.6	4709.0	4614.3	4351.7	4731.7	4988.5	5564.4
57.5°	5920.0	5921.6	5965.5	6084.6	6091.4	5229.1	5121.9	4924.3	5406.5	5668.2	6402.2
60°	6151.3	6163.1	6283.0	6561.7	6651.2	5825.4	5724.0	5600.7	6104.1	6367.5	7282.9
62.5°	6229.0	6272.1	6539.0	6935.0	7204.4	6556.7	6457.1	6383.6	6837.1	7081.9	8019.4
65°	6097.3	6196.1	6712.1	7243.3	7773.6	7425.7	7326.9	7246.6	7598.8	7829.4	8624.0
67.5°	5773.8	5901.3	6702.0	7566.8	8464.4	8471.2	8379.2	8190.8	8415.5	8504.1	8820.8
70°	4921.7	5112.6	6111.7	7687.5	9257.4	9900.9	9812.2	9327.5	9230.3	8801.4	8266.8
72.5°	3171.1	3427.8	4500.4	6693.5	9433.9	11246.2	11241.2	10353.5	9487.9	8223.8	6630.2
75°	1156.9	1314.0	2091.0	4201.4	7918.8	11177.8	11210.7	10177.9	8661.1	6352.3	4130.4
77.5°	421.4	461.1	682.3	1614.7	4870.2	8968.5	9037.0	8136.8	6164.9	3188.0	1636.6
80°	221.3	243.2	349.6	626.6	2086.8	5326.2	5433.5	4835.6	2897.5	960.2	490.7
82.5°	122.5	132.6	195.9	340.3	939.9	2277.7	2341.8	1910.3	1019.3	407.0	202.6
85°	65.9	70.1	92.0	185.8	459.4	789.6	807.3	570.9	406.2	239.0	98.0
87.5°	19.4	23.7	30.4	59.1	179.9	177.3	181.5	113.2	160.4	120.7	32.1
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°	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2	1617.2
2.5°	1624.8	1622.3	1613.0	1608.7	1603.7	1602.9	1607.1	1607.9	1608.7	1609.7	1613.0
5°	1640.0	1631.6	1623.1	1618.1	1619.7	1620.6	1629.0	1635.0	1639.2	1642.6	1644.2
7.5°	1669.6	1662.9	1648.5	1647.6	1650.1	1657.7	1668.7	1682.2	1689.8	1695.8	1697.4
10°	1713.5	1700.8	1684.0	1686.4	1691.6	1702.5	1725.3	1736.2	1749.0	1759.9	1757.4
12.5°	1758.3	1747.3	1727.8	1729.6	1738.0	1757.4	1779.4	1792.8	1801.3	1809.7	1813.1
15°	1816.5	1797.1	1776.0	1776.0	1791.2	1812.3	1822.4	1833.4	1838.4	1847.8	1851.2
17.5°	1876.5	1851.2	1823.3	1821.6	1840.2	1850.3	1856.2	1857.9	1859.6	1869.7	1873.1
20°	1936.4	1908.5	1868.9	1865.5	1869.7	1868.1	1867.1	1865.5	1868.1	1880.7	1885.8
22.5°	1995.6	1963.5	1908.5	1893.4	1881.6	1865.5	1864.7	1863.9	1865.5	1878.2	1886.6
25°	2064.8	2025.9	1952.5	1906.9	1867.1	1845.2	1847.8	1848.6	1850.3	1860.5	1873.9
27.5°	2140.0	2096.8	1993.0	1902.7	1830.9	1815.7	1811.5	1813.9	1819.9	1836.0	1852.0
30°	2215.1	2164.5	2030.2	1885.8	1785.2	1764.1	1750.6	1756.5	1775.1	1791.2	1808.9
32.5°	2283.5	2232.9	2059.7	1848.6	1727.0	1694.0	1676.3	1684.0	1702.5	1708.5	1729.6
35°	2363.8	2306.4	2072.4	1789.4	1663.7	1613.0	1589.4	1578.4	1587.6	1581.8	1600.3
37.5°	2453.2	2393.3	2070.7	1711.7	1589.4	1531.0	1498.1	1456.7	1437.4	1417.1	1429.8
40°	2585.9	2499.7	2050.4	1618.1	1497.3	1444.1	1385.0	1314.9	1271.0	1231.2	1233.8
42.5°	2766.6	2647.5	2013.3	1515.1	1393.4	1343.6	1263.4	1181.4	1112.2	1046.3	1040.4
45°	3035.9	2840.9	1966.9	1405.3	1281.1	1232.2	1145.1	1053.1	974.6	890.1	880.0
47.5°	3424.4	3101.0	1922.9	1280.2	1162.9	1118.1	1039.6	954.3	861.4	779.5	770.2
50°	3958.1	3474.2	1882.4	1158.7	1046.3	1012.6	950.1	863.0	769.4	703.5	699.3
52.5°	4637.1	3981.8	1865.5	1041.3	937.4	924.8	874.9	793.9	705.2	649.4	645.2
55°	5416.6	4589.0	1865.5	929.0	841.9	846.1	811.6	736.4	659.6	609.8	604.6
57.5°	6212.1	5203.8	1831.7	825.1	760.9	778.6	756.7	690.8	621.6	570.0	561.6
60°	6945.2	5719.0	1694.9	730.5	689.1	717.0	702.6	646.1	561.6	518.5	511.8
62.5°	7508.4	6009.5	1431.4	655.3	630.0	662.0	654.5	586.9	550.6	532.9	527.0
65°	7790.5	5962.1	1094.5	588.7	580.2	630.0	614.0	611.4	582.7	562.4	555.7
67.5°	7617.4	5555.1	793.9	539.7	551.4	600.4	662.0	672.2	619.0	579.3	572.6
70°	6858.2	4818.7	591.1	493.2	515.2	601.3	755.0	703.5	607.2	560.8	553.2
72.5°	5217.4	3593.3	458.6	444.2	467.8	605.5	796.3	689.1	573.4	619.8	614.8
75°	2983.6	1972.7	368.2	384.3	408.8	565.8	775.2	652.0	547.2	569.2	569.2
77.5°	1137.5	758.4	304.0	325.1	328.5	494.0	741.5	649.4	521.0	508.4	463.6
80°	394.4	296.4	251.6	258.4	254.2	439.1	711.0	565.0	426.5	381.7	369.0
82.5°	161.3	147.8	199.3	190.9	180.7	341.2	574.3	462.0	348.8	308.2	304.8
85°	70.1	93.8	131.7	115.7	104.8	236.5	460.2	391.0	294.7	254.2	253.4
87.5°	14.3	35.5	55.8	52.4	54.0	158.0	326.8	277.9	208.6	156.2	122.5
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)