

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: P962079

Luminaire Tested: **NAV-SB2B-830-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962079
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-830-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10136.2 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 73.9
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



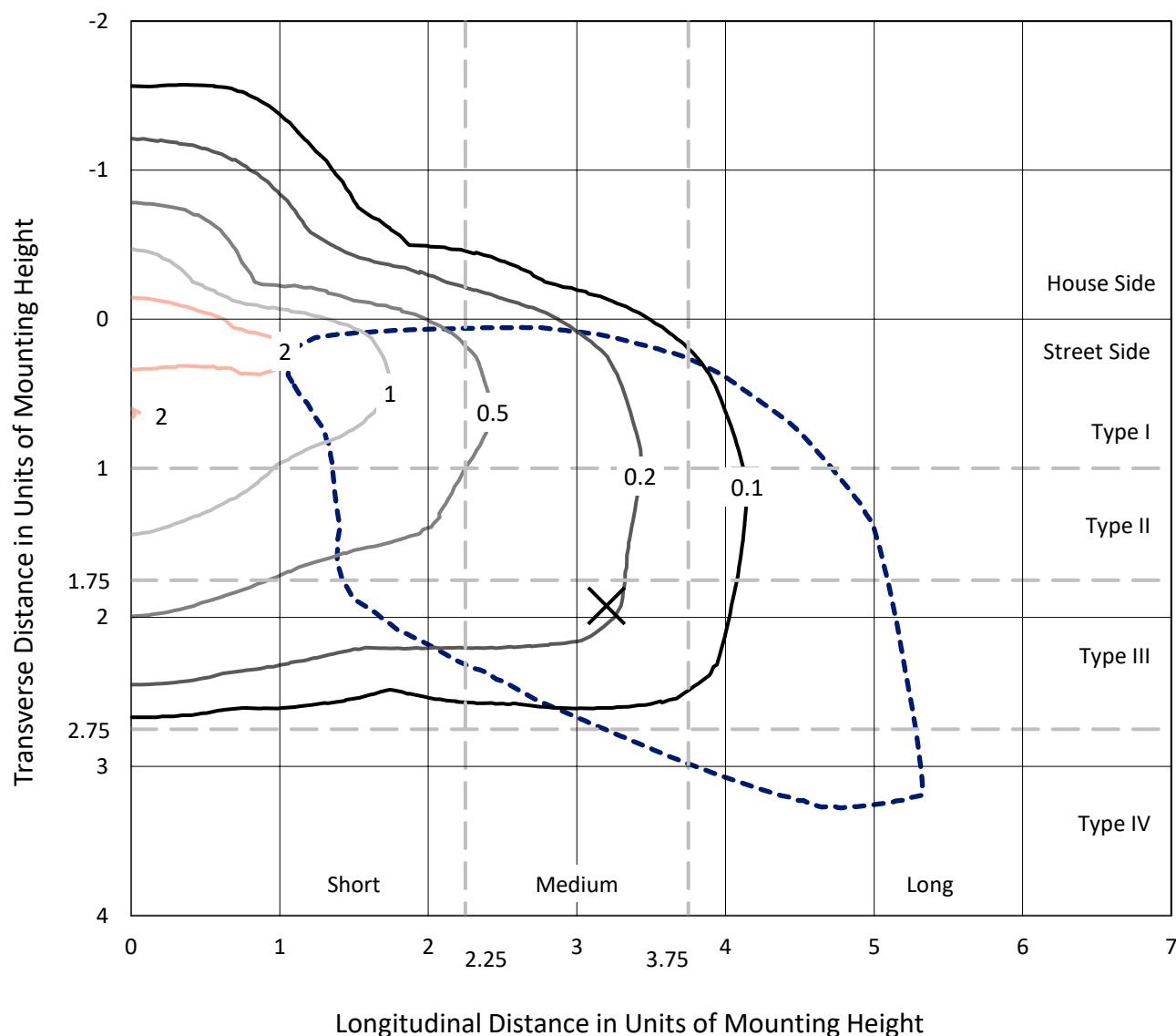
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

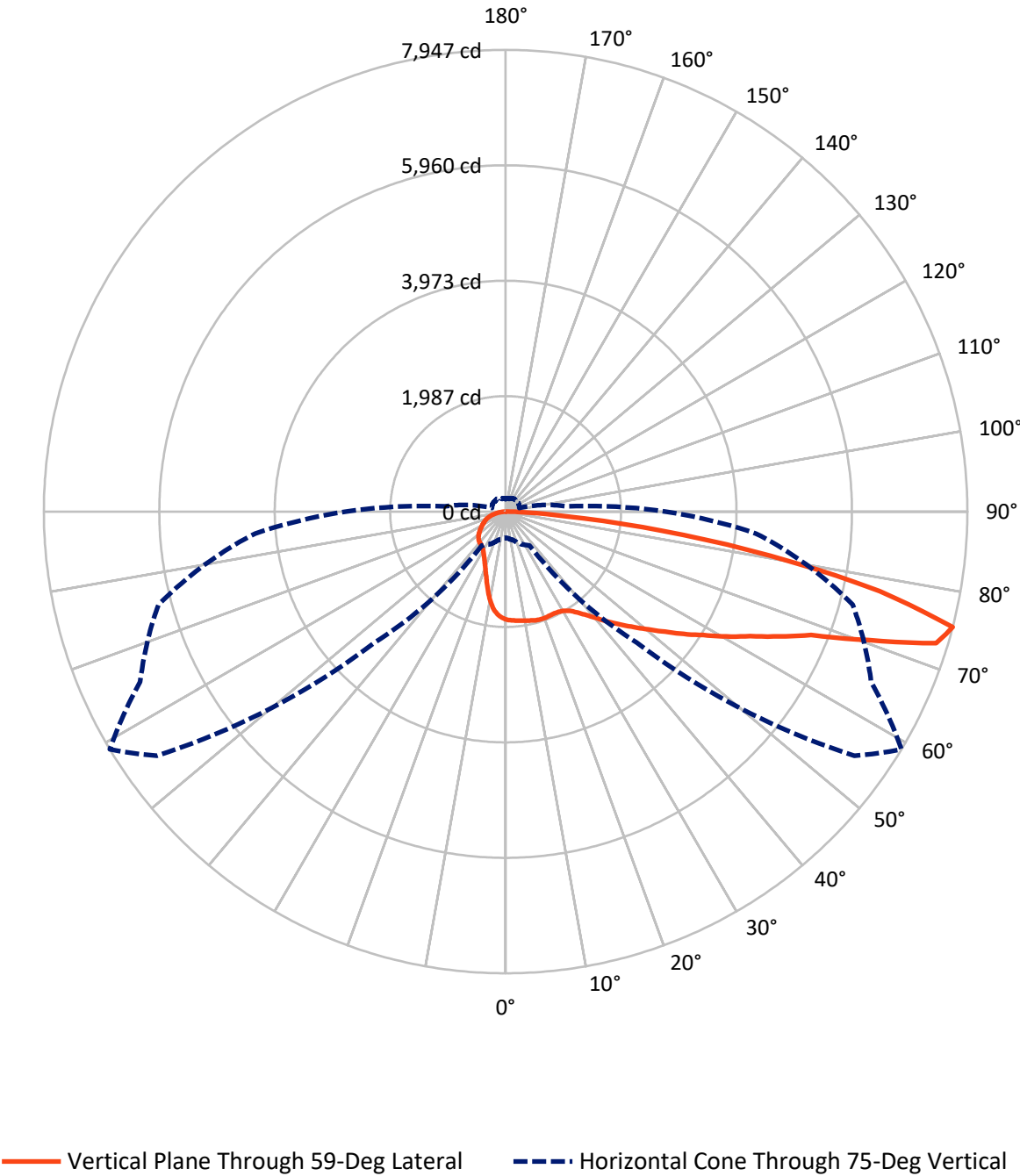
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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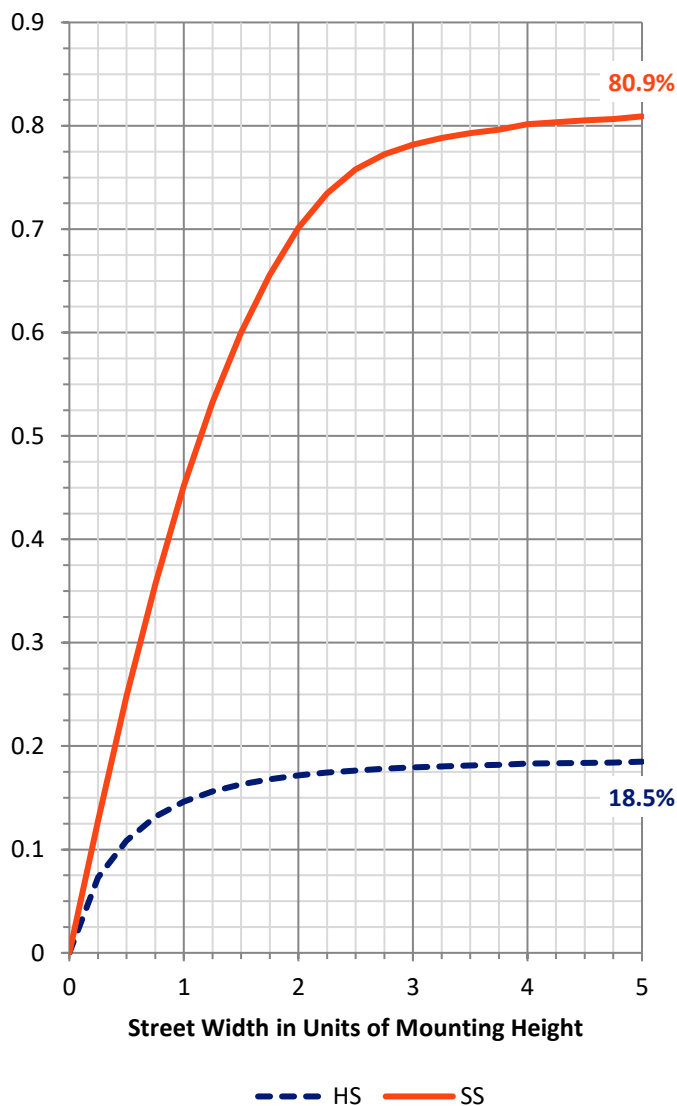
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1901.1	0.0	1901.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	8235.1	0.0	8235.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	10136.2	0.0	10136.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.8	1.6
10°-20°	426.4	4.2
20°-30°	647.7	6.4
30°-40°	962.8	9.5
40°-50°	1431.8	14.1
50°-60°	1943.5	19.2
60°-70°	2372.7	23.4
70°-80°	1862.0	18.4
80°-90°	322.6	3.2
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°	10136.2	100.0
0°-180°	10136.2	100.0

Coefficient of Utilization



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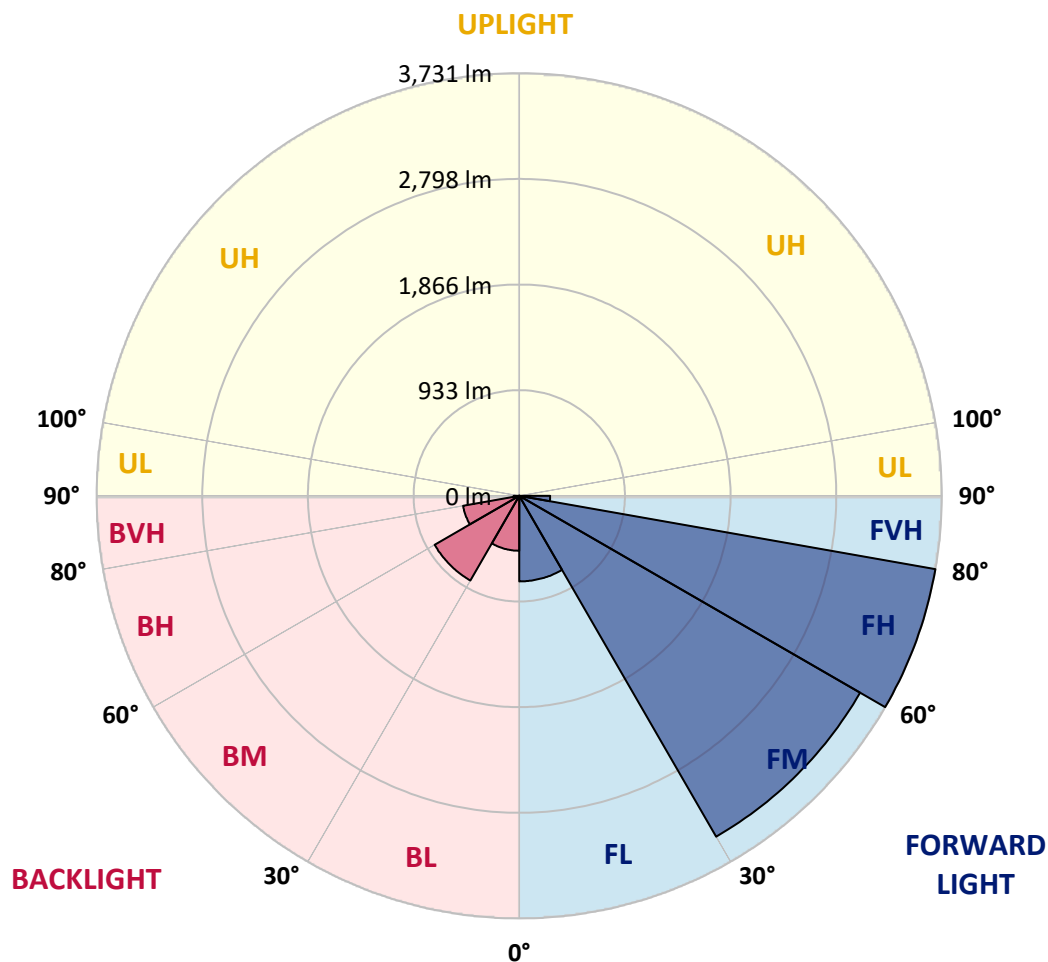
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	755.8	7.5			
FM	(30°-60°)	3475.1	34.3			
FH	(60°-80°)	3731.0	36.8			G2/5000
FVH	(80°-90°)	273.2	2.7			G3/500
BL	(0°-30°)	485.1	4.8	B1/500		
BM	(30°-60°)	862.9	8.5	B1/1000		
BH	(60°-80°)	503.7	5.0	B2/1000		G2/1000
BVH	(80°-90°)	49.4	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-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5
2.5°	1876.3	1869.7	1876.3	1873.6	1872.5	1870.3	1870.8	1874.6	1872.5	1875.2	1865.9
5°	1863.8	1860.0	1866.5	1864.9	1872.0	1873.0	1880.2	1884.5	1887.2	1887.7	1880.7
7.5°	1843.1	1839.3	1848.5	1856.1	1871.3	1875.7	1890.5	1897.6	1901.4	1907.9	1897.6
10°	1767.2	1765.6	1788.5	1817.4	1853.4	1875.7	1898.1	1910.1	1916.1	1933.6	1921.6
12.5°	1633.1	1635.3	1665.3	1720.9	1792.8	1864.9	1906.8	1924.2	1933.6	1955.4	1949.9
15°	1505.0	1504.4	1537.1	1596.5	1697.4	1816.8	1911.2	1941.1	1957.0	1989.2	1984.8
17.5°	1430.8	1428.6	1451.5	1496.8	1590.6	1743.2	1900.2	1950.5	1984.3	2024.6	2020.8
20°	1417.2	1412.9	1424.9	1447.2	1513.7	1662.6	1872.0	1950.5	2006.0	2058.4	2056.3
22.5°	1466.8	1459.7	1454.8	1452.1	1481.5	1596.0	1839.8	1943.9	2038.2	2107.0	2103.1
25°	1566.6	1555.6	1530.6	1506.0	1497.3	1566.0	1811.4	1942.3	2086.2	2172.4	2158.2
27.5°	1727.9	1714.3	1663.7	1604.7	1551.8	1581.3	1798.9	1952.1	2139.1	2241.7	2213.3
30°	1928.1	1913.4	1849.6	1759.1	1664.2	1638.1	1814.7	1981.0	2206.7	2333.8	2278.2
32.5°	2107.5	2091.1	2036.6	1944.4	1816.3	1736.1	1864.9	2036.1	2313.0	2461.9	2375.7
35°	2266.7	2247.6	2198.5	2113.4	2002.7	1874.1	1955.4	2133.6	2464.1	2670.2	2508.3
37.5°	2422.7	2400.3	2346.8	2256.9	2179.5	2057.9	2080.2	2259.1	2664.8	2923.2	2683.9
40°	2597.1	2565.0	2500.1	2411.2	2336.0	2273.2	2244.3	2412.8	2868.7	3205.7	2903.0
42.5°	2766.2	2735.6	2658.2	2582.4	2488.1	2470.1	2434.7	2592.7	3091.7	3516.0	3125.5
45°	2948.3	2911.8	2818.0	2722.0	2662.5	2600.9	2619.0	2772.7	3310.3	3832.2	3358.9
47.5°	3119.0	3078.1	2967.4	2860.5	2827.8	2711.1	2788.0	2970.7	3537.8	4152.8	3590.1
50°	3211.1	3170.7	3078.6	2982.1	2956.5	2846.8	2971.2	3188.3	3776.0	4472.4	3812.0
52.5°	3288.0	3244.4	3123.9	3070.5	3062.8	2994.6	3197.0	3436.8	4014.3	4754.8	4026.3
55°	3369.8	3321.3	3167.6	3119.5	3154.4	3160.4	3464.7	3718.8	4266.3	5030.2	4228.6
57.5°	3464.1	3402.5	3209.5	3161.0	3243.8	3354.5	3772.2	4011.0	4513.8	5285.3	4408.5
60°	3553.1	3490.8	3290.1	3226.9	3340.4	3579.7	4125.0	4365.0	4794.0	5512.8	4578.7
62.5°	3570.5	3519.2	3354.5	3354.0	3471.3	3842.5	4542.7	4722.1	5038.9	5737.4	4731.4
65°	3268.4	3236.2	3138.7	3349.1	3658.8	4221.0	5007.8	5179.0	5350.3	5933.7	4865.5
67.5°	2487.6	2491.9	2484.8	2891.0	3507.2	4764.6	5681.3	5668.1	5734.7	6154.0	5019.8
70°	1137.4	1163.1	1329.9	1995.7	2809.8	4827.3	6794.7	6625.1	6217.2	6439.2	5153.4
72.5°	614.5	634.2	702.3	966.8	1689.3	4291.9	7626.8	7747.3	6859.0	6631.1	5006.7
75°	450.9	461.9	509.3	614.5	709.4	3189.9	7328.5	7946.8	6939.1	6183.4	4323.4
77.5°	337.5	342.5	381.2	487.0	363.2	1681.6	5855.7	6581.5	5940.3	5080.3	3193.7
80°	244.9	250.3	279.2	365.3	254.6	615.1	4020.9	4619.6	4068.3	3238.4	1591.6
82.5°	169.0	171.2	183.8	248.7	177.7	238.8	2281.4	2709.0	2271.1	1136.3	429.7
85°	102.0	104.7	110.2	145.0	100.9	113.5	984.7	1018.5	678.9	271.5	133.6
87.5°	42.0	44.7	49.1	61.1	39.8	31.7	162.5	204.0	127.1	79.6	41.4
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°	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5	1860.5
2.5°	1863.2	1859.4	1849.0	1834.9	1821.7	1805.4	1798.4	1792.3	1786.9	1776.5	1771.6
5°	1874.6	1864.3	1836.5	1800.5	1759.6	1714.9	1671.3	1641.2	1615.6	1596.5	1580.8
7.5°	1892.2	1872.5	1821.7	1748.1	1654.4	1558.4	1471.7	1410.1	1363.8	1346.8	1317.4
10°	1910.1	1886.6	1798.4	1668.5	1506.6	1358.8	1243.7	1180.5	1143.5	1131.5	1112.9
12.5°	1931.4	1897.0	1761.8	1557.9	1341.4	1179.5	1079.1	1042.0	1023.0	1016.4	1018.0
15°	1962.5	1905.8	1706.7	1419.3	1183.8	1048.6	983.7	958.1	948.2	947.7	949.9
17.5°	1985.9	1907.4	1621.1	1271.0	1062.7	969.5	916.0	906.2	912.8	922.6	926.4
20°	2012.1	1892.7	1508.8	1135.8	977.6	900.3	877.9	884.5	900.3	914.4	919.3
22.5°	2030.6	1865.9	1373.0	1030.5	904.0	860.5	859.4	873.0	881.7	888.8	892.6
25°	2046.9	1820.7	1229.1	942.3	843.6	836.5	848.5	844.1	838.0	844.1	847.9
27.5°	2058.9	1749.3	1100.3	864.8	801.0	820.1	813.0	803.2	802.7	806.0	811.4
30°	2055.1	1653.8	994.6	791.2	771.0	789.6	772.6	771.0	769.4	771.0	777.1
32.5°	2055.1	1545.3	913.4	740.5	751.9	744.9	743.2	739.4	732.9	732.3	739.4
35°	2066.6	1436.8	843.6	713.2	736.2	719.2	720.3	711.0	697.4	690.8	697.4
37.5°	2090.1	1349.5	774.3	700.2	708.3	707.8	703.4	687.6	663.6	642.9	650.0
40°	2146.8	1323.9	726.8	694.1	695.3	701.8	690.3	659.8	605.3	571.4	575.8
42.5°	2235.6	1367.0	716.5	679.4	686.5	693.0	670.7	599.8	561.1	540.9	540.9
45°	2348.5	1442.3	738.8	658.2	665.7	677.2	610.7	576.9	559.4	560.0	562.7
47.5°	2491.4	1521.3	780.3	639.6	635.8	642.4	570.9	550.2	526.2	532.2	547.5
50°	2656.6	1601.5	819.6	614.5	602.5	581.3	545.3	525.6	495.1	480.9	484.7
52.5°	2835.5	1679.0	835.4	583.9	566.5	542.0	527.9	503.8	466.8	443.3	442.8
55°	3005.0	1749.3	817.9	547.5	530.5	511.5	509.3	494.6	454.8	422.0	422.0
57.5°	3165.3	1808.1	774.3	510.3	494.0	482.6	497.3	490.2	440.0	398.0	395.9
60°	3301.1	1848.5	711.0	472.7	461.4	455.3	477.6	475.5	419.3	372.4	370.7
62.5°	3409.0	1864.3	641.2	436.8	434.1	423.1	450.4	450.4	393.2	347.4	345.7
65°	3493.6	1849.0	570.3	401.3	406.8	390.4	417.2	413.9	365.3	325.0	322.8
67.5°	3568.3	1798.9	491.8	366.4	378.9	358.2	382.2	374.6	334.8	302.6	300.4
70°	3601.5	1682.1	402.4	331.5	346.8	326.7	347.4	333.1	300.4	278.6	274.3
72.5°	3334.3	1398.1	316.8	295.0	308.1	291.7	309.8	293.4	263.3	253.6	245.4
75°	2758.6	1049.1	243.7	255.2	265.0	252.5	264.4	252.5	225.2	232.3	212.1
77.5°	2003.4	708.3	186.4	213.2	217.6	211.0	221.4	207.8	183.2	181.5	173.4
80°	996.2	414.9	146.2	168.5	166.9	162.5	174.5	167.9	147.2	155.9	154.3
82.5°	288.4	177.7	106.3	118.3	115.0	116.1	124.8	128.1	192.0	190.3	194.6
85°	90.5	69.8	63.8	66.0	62.7	64.4	73.6	146.2	135.2	79.0	85.6
87.5°	23.5	24.0	15.8	16.9	17.4	20.7	23.5	88.9	42.5	27.8	29.4
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)