

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: P963600

Luminaire Tested: **NAV-SB3A-760-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963600
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-SB3A-760-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14467.9 lumens
Efficiency: N/A
Efficacy: 170.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

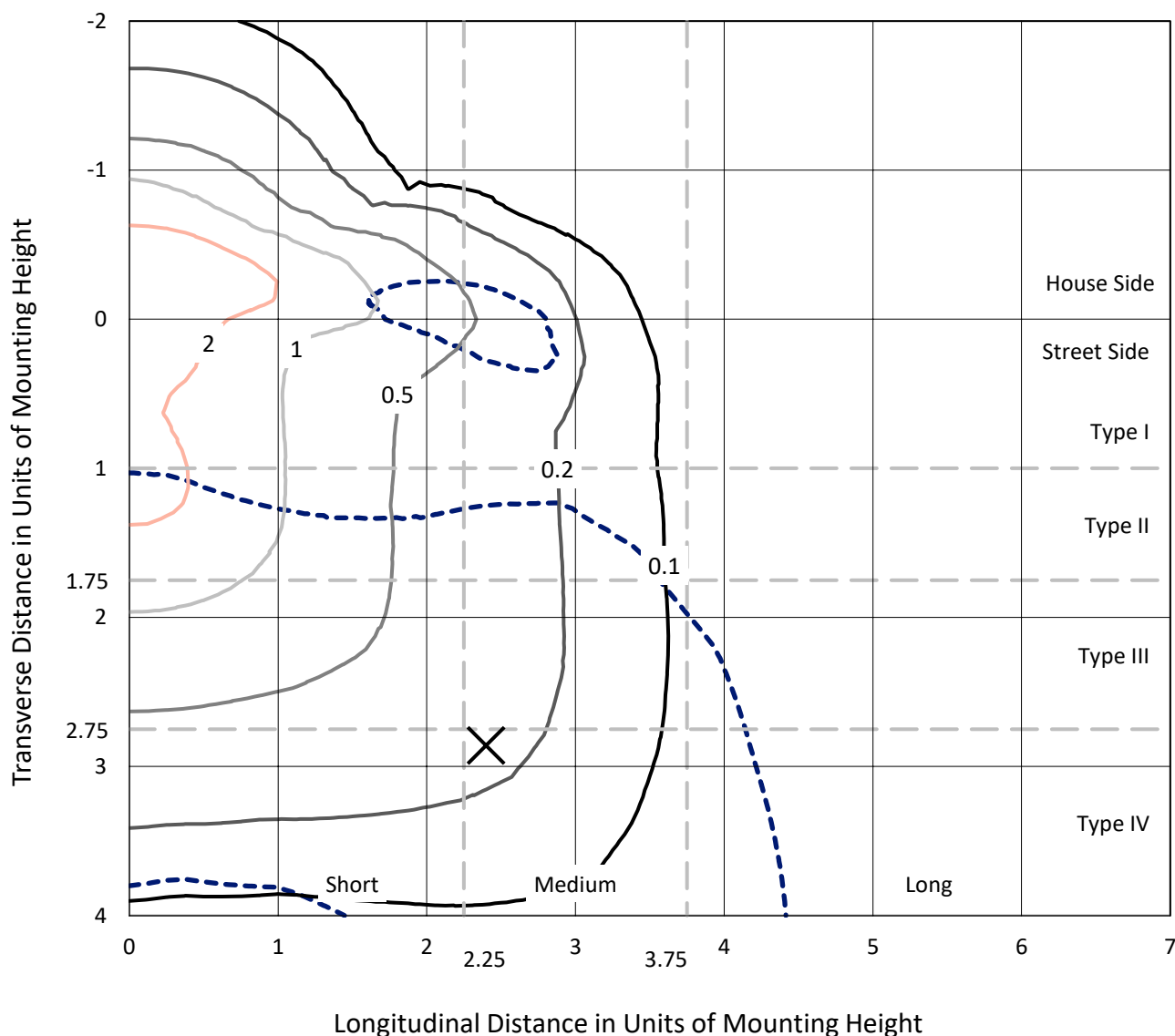
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

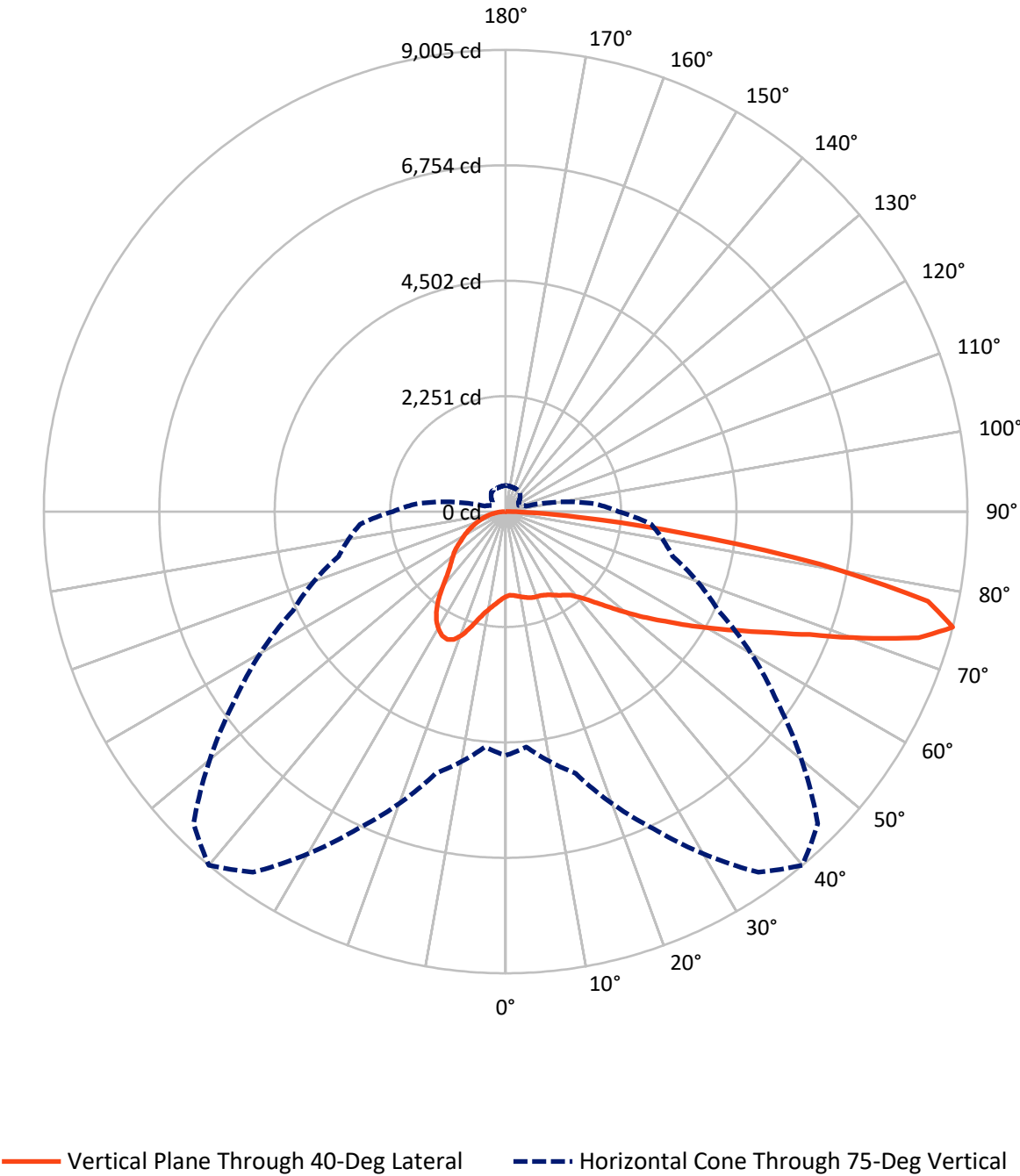
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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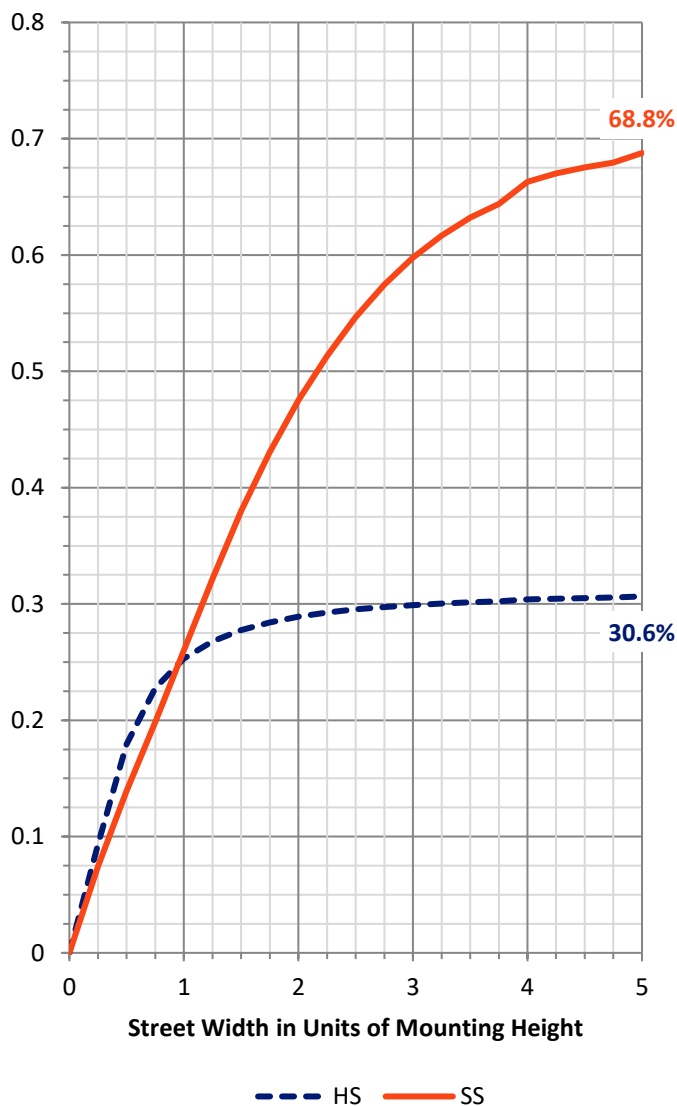
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4482.6	0.0	4482.6
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	9985.2	0.0	9985.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	14467.9	0.0	14467.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.1	1.1
10°-20°	554.5	3.8
20°-30°	1012.4	7.0
30°-40°	1435.9	9.9
40°-50°	1938.8	13.4
50°-60°	2608.3	18.0
60°-70°	3310.5	22.9
70°-80°	3004.5	20.8
80°-90°	438.0	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°	14467.9	100.0
0°-180°	14467.9	100.0

Coefficient of Utilization



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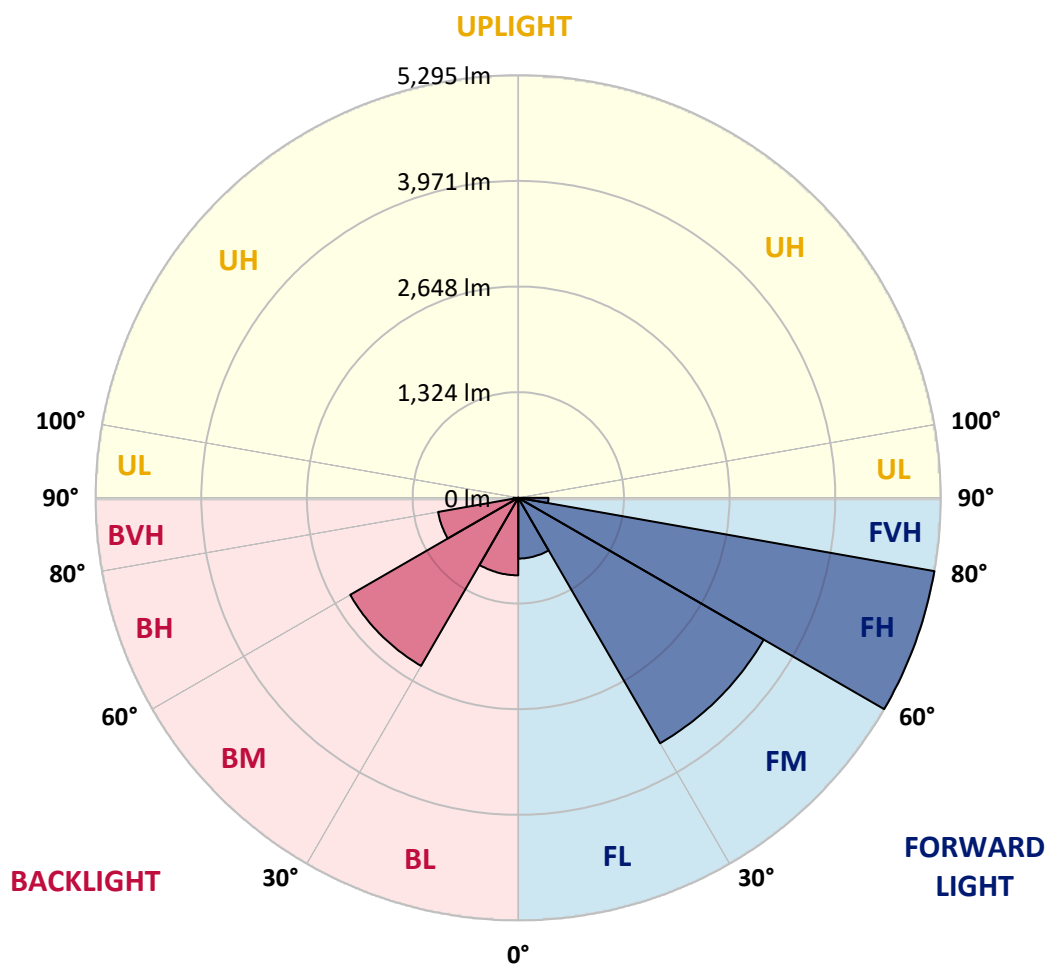
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	761.0	5.3			
FM	(30°-60°)	3551.5	24.5			
FH	(60°-80°)	5295.0	36.6			G3/7500
FVH	(80°-90°)	377.7	2.6			G3/500
BL	(0°-30°)	971.0	6.7	B2/1000		
BM	(30°-60°)	2431.4	16.8	B2/2500		
BH	(60°-80°)	1019.9	7.0	B3/2500		G3/2500
BVH	(80°-90°)	60.3	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°	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5
2.5°	1629.1	1638.3	1636.0	1632.9	1632.9	1633.7	1632.9	1638.3	1643.7	1649.0	1657.5
5°	1645.9	1655.2	1650.6	1646.8	1643.7	1642.9	1640.6	1639.8	1642.9	1649.8	1661.3
7.5°	1679.0	1688.2	1681.3	1674.3	1668.2	1665.2	1662.1	1657.5	1655.2	1659.1	1675.2
10°	1715.8	1725.0	1716.6	1704.3	1694.3	1690.5	1687.5	1682.8	1679.8	1682.0	1699.7
12.5°	1752.6	1761.9	1750.3	1733.5	1720.5	1718.1	1714.3	1712.8	1712.0	1711.2	1728.9
15°	1787.2	1794.9	1780.2	1760.3	1746.5	1742.7	1738.8	1741.2	1745.0	1749.6	1769.6
17.5°	1814.0	1821.7	1800.2	1774.2	1761.1	1759.5	1757.3	1764.9	1775.7	1787.2	1811.7
20°	1838.5	1846.2	1818.7	1783.3	1768.0	1768.0	1768.7	1784.8	1800.2	1817.1	1850.8
22.5°	1873.1	1879.2	1845.5	1797.1	1774.9	1776.4	1782.6	1798.7	1817.8	1840.9	1887.7
25°	1924.5	1929.2	1887.7	1823.3	1798.0	1802.6	1807.9	1815.6	1834.0	1860.9	1923.7
27.5°	2007.4	2011.3	1956.7	1869.3	1831.0	1838.5	1846.2	1840.9	1849.3	1872.4	1952.9
30°	2124.0	2126.4	2057.3	1941.5	1886.9	1890.8	1892.3	1870.0	1853.9	1872.4	1973.6
32.5°	2262.2	2261.4	2179.3	2028.9	1950.6	1946.8	1933.8	1890.0	1852.4	1868.5	1992.1
35°	2476.3	2467.8	2361.9	2151.7	2022.7	1999.0	1968.3	1912.2	1860.1	1864.7	2008.2
37.5°	2830.7	2804.7	2658.1	2352.7	2130.2	2069.6	2024.3	1948.3	1877.0	1863.1	2027.3
40°	3230.6	3197.6	3036.5	2628.2	2291.3	2193.9	2120.9	1999.8	1904.6	1870.0	2055.7
42.5°	3704.8	3658.0	3484.6	2952.8	2495.5	2354.2	2244.5	2065.0	1945.2	1892.3	2094.1
45°	4287.3	4225.0	3979.5	3318.8	2752.5	2564.5	2418.0	2164.0	2007.4	1935.3	2151.7
47.5°	4875.8	4891.1	4542.0	3737.8	3061.0	2823.9	2635.1	2312.8	2098.0	2004.3	2244.5
50°	5501.2	5511.9	5101.4	4202.1	3410.9	3117.0	2879.1	2479.4	2223.8	2102.6	2383.4
52.5°	5989.2	5990.7	5609.4	4687.7	3775.4	3439.3	3142.3	2669.6	2369.6	2233.0	2568.3
55°	6294.6	6290.8	5965.4	5147.4	4194.4	3777.7	3434.0	2886.0	2547.6	2386.5	2800.8
57.5°	6516.4	6504.9	6211.0	5542.6	4641.0	4177.5	3763.9	3131.6	2757.9	2569.1	3107.0
60°	6600.8	6593.9	6377.5	5884.1	5110.5	4619.5	4144.5	3406.3	2996.5	2784.7	3500.7
62.5°	6633.0	6646.1	6540.9	6214.8	5613.2	5109.0	4562.7	3734.7	3265.1	3028.8	3915.8
65°	6746.6	6770.4	6748.9	6647.6	6181.1	5682.3	5117.5	4125.3	3558.2	3290.5	4349.4
67.5°	6971.4	6995.2	7004.4	7165.6	6874.8	6396.7	5809.7	4611.8	3901.3	3562.1	4675.5
70°	6966.1	6959.1	7121.8	7577.6	7743.4	7385.8	6742.8	5210.4	4310.2	3787.7	4716.9
72.5°	6340.6	6285.4	6669.9	7573.0	8466.3	8418.6	7882.2	5982.3	4663.2	3815.3	4093.0
75°	4756.8	4609.5	5288.6	6824.9	8586.7	9004.9	8606.7	6461.2	4579.6	3371.0	2848.5
77.5°	2034.2	1886.2	2686.5	5052.2	7685.0	8417.9	7942.1	5637.0	3655.7	2229.2	1398.9
80°	532.6	531.8	811.9	2290.6	5226.5	6216.3	5453.6	3640.4	2088.7	796.5	386.0
82.5°	220.3	214.8	298.5	890.9	2553.8	3488.4	2846.9	1623.7	754.3	215.7	128.1
85°	82.1	81.4	145.0	307.7	900.9	1438.8	1041.3	415.1	188.0	105.2	57.5
87.5°	23.1	22.2	31.5	106.7	219.5	333.0	178.0	68.3	53.0	41.4	16.9
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°	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5	1654.5
2.5°	1659.8	1663.7	1670.5	1675.9	1682.8	1690.5	1701.2	1708.2	1715.0	1719.6	1716.6
5°	1666.6	1675.2	1692.8	1710.4	1731.1	1750.3	1772.6	1788.7	1801.7	1805.6	1807.1
7.5°	1682.0	1695.9	1725.8	1755.7	1788.7	1820.2	1852.4	1880.1	1902.3	1910.7	1911.5
10°	1708.9	1727.3	1769.6	1811.7	1855.5	1903.8	1945.2	1985.1	2016.6	2029.7	2030.4
12.5°	1742.7	1765.7	1820.9	1879.2	1939.9	2006.6	2060.4	2109.4	2148.6	2166.2	2166.2
15°	1786.4	1816.3	1886.9	1965.2	2054.2	2147.1	2215.3	2269.9	2313.6	2335.1	2333.5
17.5°	1834.0	1873.9	1962.9	2081.1	2208.5	2330.4	2410.3	2450.2	2495.5	2516.2	2515.4
20°	1880.1	1929.2	2056.6	2228.5	2398.0	2527.6	2592.1	2602.9	2606.0	2608.2	2614.4
22.5°	1927.6	1993.6	2173.9	2414.1	2596.0	2685.7	2694.9	2648.9	2584.4	2554.5	2563.0
25°	1979.8	2067.2	2327.4	2619.0	2766.3	2777.0	2706.5	2594.5	2472.4	2416.4	2424.8
27.5°	2030.4	2152.4	2511.6	2814.6	2889.1	2794.7	2642.8	2483.9	2336.6	2277.5	2284.4
30°	2081.1	2249.9	2714.9	2985.8	2945.1	2751.0	2542.2	2365.0	2216.9	2154.8	2161.6
32.5°	2132.5	2363.4	2948.9	3109.3	2935.2	2658.1	2417.2	2231.4	2101.0	2035.8	2044.3
35°	2190.8	2503.2	3170.7	3176.9	2868.4	2521.5	2252.2	2071.8	1958.3	1906.1	1917.7
37.5°	2266.8	2680.4	3366.4	3193.7	2751.7	2321.2	2047.3	1883.1	1789.4	1765.7	1782.6
40°	2361.2	2893.7	3516.1	3166.8	2579.1	2078.0	1823.3	1692.1	1639.1	1644.4	1662.9
42.5°	2483.9	3132.4	3621.1	3097.9	2338.9	1827.1	1626.8	1568.5	1593.8	1615.3	1635.3
45°	2643.6	3380.2	3686.4	2980.4	2067.2	1614.5	1511.0	1524.7	1544.0	1546.2	1561.6
47.5°	2847.7	3631.2	3729.4	2803.2	1790.3	1464.9	1437.3	1440.3	1436.5	1420.3	1432.6
50°	3102.5	3875.1	3767.7	2568.3	1554.6	1371.2	1334.4	1323.7	1270.7	1218.5	1225.5
52.5°	3392.4	4099.2	3783.8	2276.7	1371.2	1293.0	1233.2	1165.6	1066.6	1050.5	1055.9
55°	3714.8	4306.4	3742.4	1918.4	1217.0	1192.5	1101.9	1020.6	1009.8	996.0	998.4
57.5°	4100.0	4529.7	3658.0	1518.6	1058.9	1075.0	986.9	996.0	976.8	955.4	951.5
60°	4521.3	4760.7	3509.9	1154.1	895.5	928.5	956.9	956.1	950.8	933.1	927.0
62.5°	4900.3	4912.6	3218.3	884.0	752.0	815.0	892.5	891.6	887.0	877.1	873.3
65°	5125.9	4889.6	2731.8	696.0	633.9	721.3	804.9	811.1	811.9	811.1	811.1
67.5°	5086.0	4620.3	2064.1	554.0	536.4	626.2	718.2	726.7	732.9	734.3	735.8
70°	4634.8	4028.7	1345.9	442.0	449.7	542.5	636.1	644.6	650.0	656.1	659.2
72.5°	3612.7	2962.0	770.4	357.6	373.7	470.4	554.8	564.8	567.8	579.3	583.9
75°	2201.5	1741.9	415.9	281.7	307.0	402.1	474.3	485.7	491.1	504.9	506.5
77.5°	1046.6	754.3	237.1	219.5	247.1	328.4	400.6	413.6	399.0	406.7	400.6
80°	353.7	280.1	149.6	167.3	188.8	256.2	320.7	333.8	303.1	301.6	298.5
82.5°	123.5	113.6	95.1	111.3	122.0	183.4	242.5	259.3	225.6	224.9	214.1
85°	48.4	46.0	53.0	60.6	72.9	112.9	159.6	168.1	138.9	112.0	110.5
87.5°	9.9	10.8	13.0	13.8	22.2	39.2	57.5	70.6	56.1	47.6	43.8
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)