

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: P963617

Luminaire Tested: **NAV-SB3A-760-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-760-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14425.9 lumens
Efficiency: N/A
Efficacy: 170.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - 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



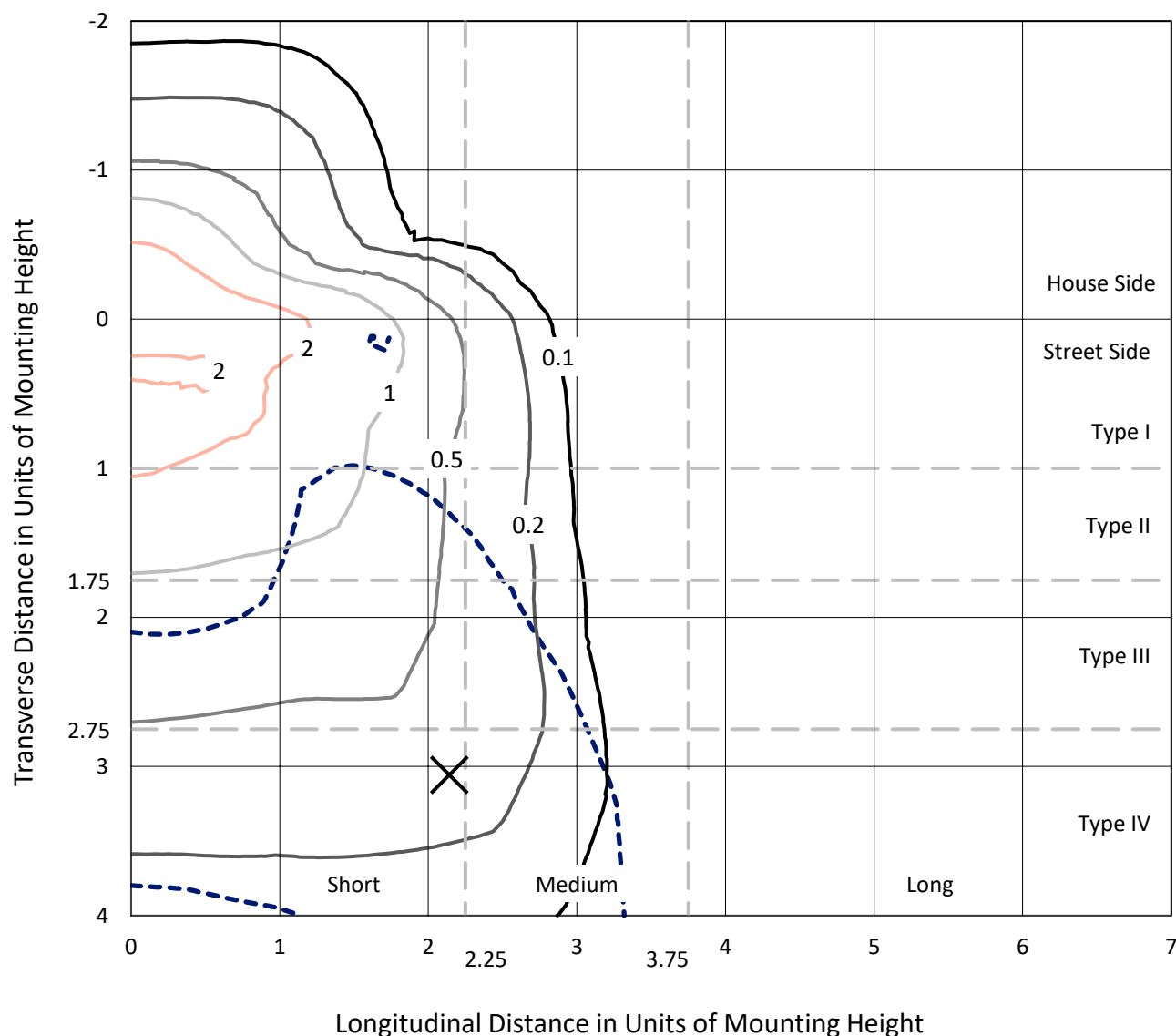
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

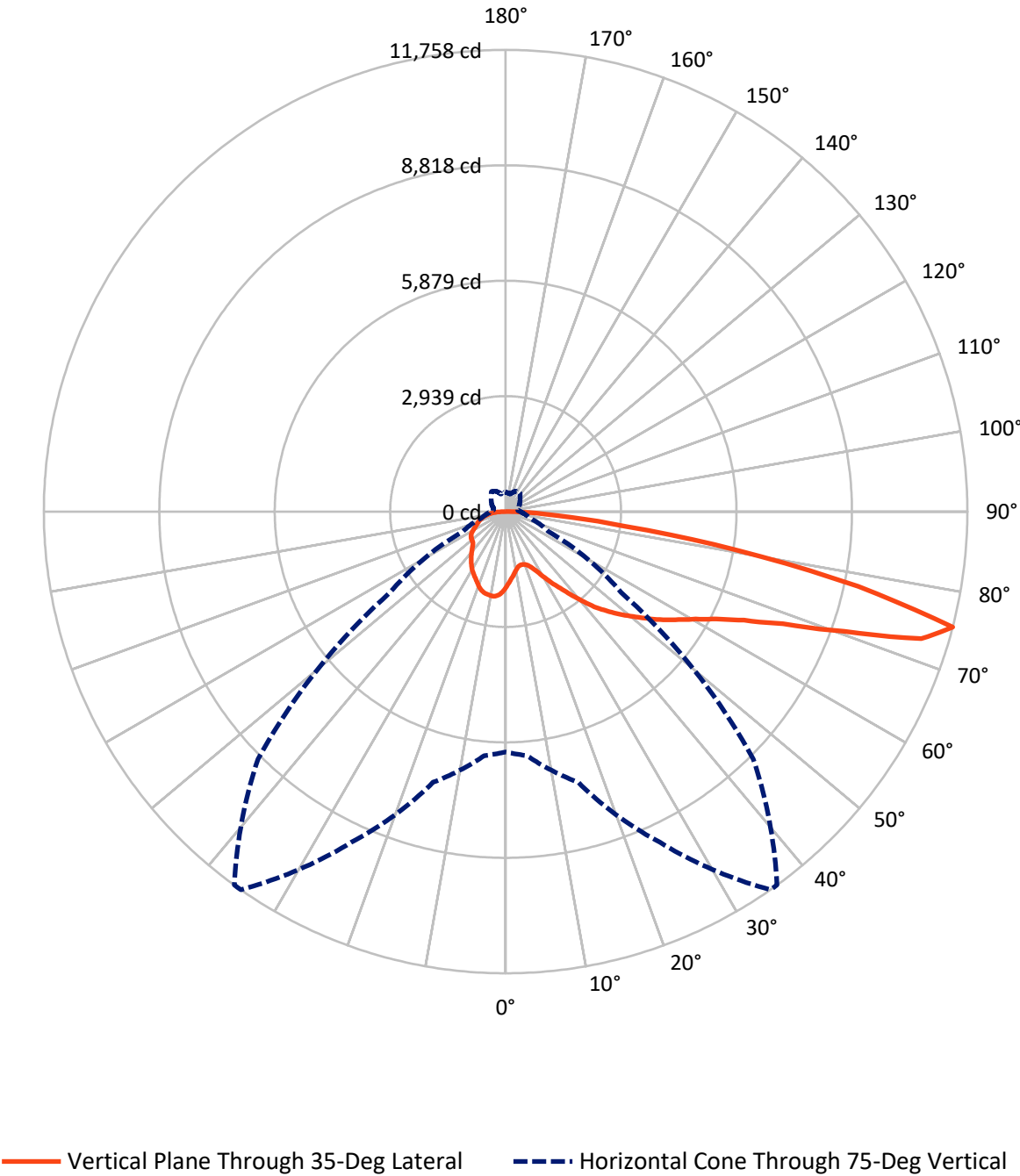


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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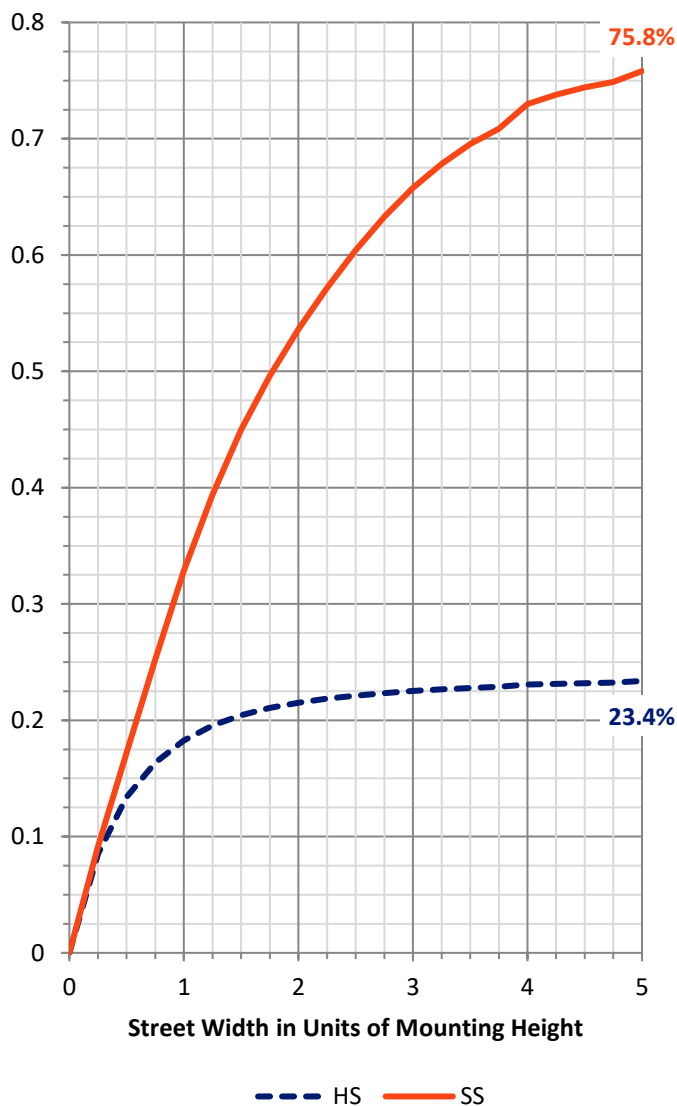
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3433.0	0.0	3433.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	10992.9	0.0	10992.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	14425.9	0.0	14425.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.0	1.3
10°-20°	525.0	3.6
20°-30°	881.6	6.1
30°-40°	1370.1	9.5
40°-50°	2033.6	14.1
50°-60°	2807.5	19.5
60°-70°	3406.2	23.6
70°-80°	2814.9	19.5
80°-90°	404.9	2.8
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°	14425.9	100.0
0°-180°	14425.9	100.0

Coefficient of Utilization



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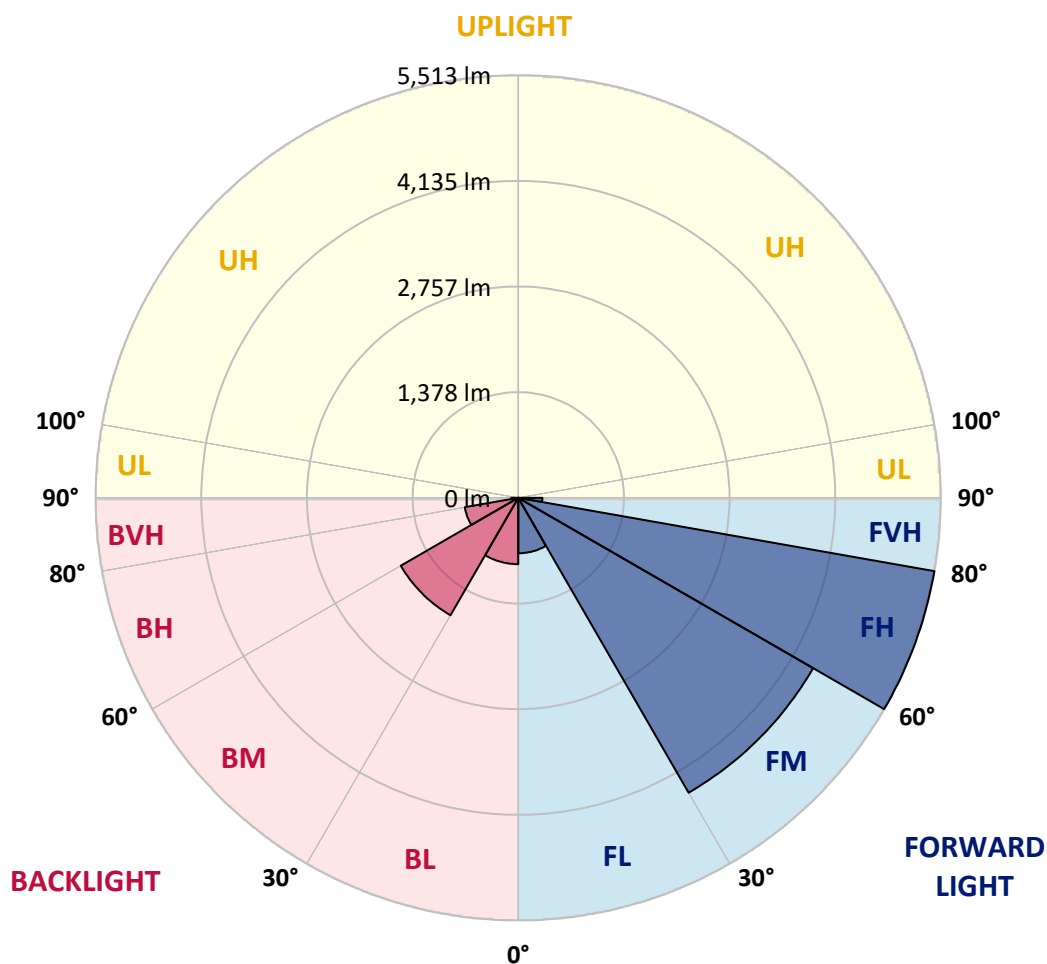
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	723.4	5.0			
FM	(30°-60°)	4442.4	30.8			
FH	(60°-80°)	5513.3	38.2			G3/7500
FVH	(80°-90°)	313.7	2.2			G3/500
BL	(0°-30°)	865.2	6.0	B2/1000		
BM	(30°-60°)	1768.9	12.3	B2/2500		
BH	(60°-80°)	707.8	4.9	B2/1000		G2/1000
BVH	(80°-90°)	91.2	0.6			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1922.4	1922.4	1922.4	1922.4	1922.4	1922.4	1922.4	1922.4	1922.4	1922.4	1922.4
2.5°	1772.6	1783.5	1788.2	1785.9	1797.5	1796.0	1812.4	1832.7	1860.7	1888.0	1927.8
5°	1636.1	1647.8	1657.9	1667.4	1689.9	1697.0	1722.7	1761.7	1813.1	1865.4	1930.9
7.5°	1509.0	1519.2	1534.7	1552.0	1590.1	1597.2	1640.0	1700.9	1772.6	1849.0	1939.5
10°	1405.3	1415.4	1431.8	1451.3	1498.9	1507.5	1562.1	1643.2	1736.8	1833.4	1948.8
12.5°	1360.9	1364.0	1373.3	1392.8	1434.2	1439.6	1499.7	1592.4	1701.6	1821.7	1962.9
15°	1358.5	1364.8	1365.5	1375.7	1410.0	1412.3	1467.7	1559.7	1679.8	1819.4	1984.0
17.5°	1381.9	1386.6	1379.5	1385.8	1414.7	1418.6	1462.3	1544.2	1672.8	1829.5	2019.9
20°	1444.3	1448.2	1427.1	1418.6	1439.6	1442.7	1485.6	1554.2	1679.8	1850.6	2069.0
22.5°	1576.9	1579.2	1527.8	1492.6	1494.2	1495.8	1533.2	1595.6	1707.1	1888.8	2131.4
25°	1783.5	1782.0	1700.1	1632.2	1593.3	1584.6	1609.7	1662.7	1753.2	1939.5	2211.6
27.5°	2025.3	2013.6	1931.7	1830.3	1745.3	1732.9	1727.3	1750.0	1818.7	2006.5	2309.9
30°	2298.3	2287.3	2199.2	2066.6	1948.8	1928.5	1877.1	1865.4	1916.1	2097.8	2446.4
32.5°	2597.7	2590.7	2485.4	2324.7	2167.3	2143.8	2057.3	2026.0	2065.8	2235.8	2636.7
35°	2848.8	2842.5	2755.2	2589.9	2397.3	2368.5	2280.3	2245.2	2265.5	2412.8	2885.5
37.5°	3075.7	3072.6	2997.7	2867.5	2668.7	2633.5	2534.5	2522.8	2518.9	2646.0	3187.2
40°	3286.4	3278.5	3200.6	3131.9	2984.5	2952.5	2865.2	2855.0	2825.4	2933.0	3528.9
42.5°	3519.4	3499.2	3386.1	3354.1	3314.3	3287.9	3235.6	3237.2	3171.7	3256.6	3890.7
45°	3709.8	3698.1	3581.9	3563.2	3606.1	3595.1	3640.4	3652.1	3525.0	3595.9	4266.6
47.5°	3914.1	3903.2	3804.9	3791.7	3907.8	3911.0	4070.9	4074.8	3869.7	3948.4	4643.2
50°	4166.0	4150.4	4053.0	4069.2	4199.5	4211.2	4503.6	4477.1	4187.0	4306.3	5016.8
52.5°	4332.1	4341.5	4320.4	4346.9	4524.8	4535.6	4929.4	4861.6	4501.3	4659.6	5383.3
55°	4454.5	4473.2	4538.8	4599.6	4867.8	4878.8	5331.1	5227.4	4761.8	4987.1	5728.0
57.5°	4612.1	4585.5	4708.0	4826.5	5193.9	5222.7	5721.8	5579.9	4992.7	5269.5	5964.4
60°	4838.2	4819.5	4914.7	5090.2	5558.8	5604.8	6135.1	5897.2	5161.9	5493.3	6010.3
62.5°	5296.8	5249.9	5264.8	5420.0	6018.9	6079.8	6601.5	6174.1	5246.1	5580.6	5763.9
65°	5982.3	5902.0	5827.1	5934.6	6667.0	6727.1	7127.8	6391.7	5214.9	5411.4	5109.6
67.5°	6845.6	6766.0	6674.0	6775.4	7621.5	7669.0	7777.5	6514.1	4969.2	4759.5	3953.1
70°	7557.5	7527.9	7637.9	8055.2	9146.2	9147.7	8610.4	6412.7	4296.2	3374.4	2287.3
72.5°	7463.2	7445.3	8024.7	9314.6	11067.7	11026.3	9398.8	5645.4	2894.1	1522.2	857.1
75°	6122.6	6238.9	7136.5	9291.9	11757.9	11752.4	8916.1	3588.9	1197.1	630.9	443.0
77.5°	3283.2	3467.3	4633.1	6860.4	9178.9	9316.9	6268.5	1255.5	513.9	404.0	306.5
80°	1070.7	1231.4	1846.7	3493.0	5964.4	5938.6	2686.6	492.8	351.7	286.2	212.1
82.5°	454.7	473.3	825.1	1649.4	3061.0	3013.4	855.5	283.1	247.2	195.8	131.0
85°	177.8	198.8	364.2	762.7	1325.7	1296.9	308.8	140.4	158.3	127.9	78.0
87.5°	58.5	70.9	130.3	261.3	412.6	397.7	75.6	48.4	68.7	58.5	28.1
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°	1922.4	1922.4	1922.4	1922.4	1922.4	1922.4	1922.4	1922.4	1922.4	1922.4	1922.4
2.5°	1938.7	1951.2	1966.1	1987.9	2006.5	2022.1	2038.5	2048.7	2052.6	2064.2	2063.5
5°	1952.7	1980.1	2016.7	2052.6	2087.7	2108.7	2127.5	2136.8	2145.4	2151.6	2153.2
7.5°	1976.2	2011.3	2069.0	2115.7	2145.4	2162.5	2175.0	2171.9	2175.0	2176.6	2178.9
10°	1996.4	2045.6	2114.2	2158.6	2181.3	2182.0	2178.9	2168.0	2162.5	2163.4	2164.9
12.5°	2020.6	2075.2	2149.3	2186.7	2193.0	2175.8	2162.5	2143.8	2136.8	2133.6	2132.1
15°	2053.4	2115.7	2187.5	2201.5	2185.9	2164.1	2141.5	2111.1	2095.5	2083.0	2086.9
17.5°	2093.2	2161.7	2217.2	2207.0	2173.4	2137.5	2100.9	2054.9	2022.9	2009.7	2010.4
20°	2148.5	2210.1	2239.7	2195.2	2144.6	2090.0	2027.7	1971.5	1941.9	1928.5	1927.0
22.5°	2215.5	2274.9	2261.6	2175.0	2103.3	2016.0	1938.0	1896.6	1881.8	1872.5	1874.0
25°	2295.9	2346.5	2277.1	2145.4	2035.4	1917.7	1857.6	1844.4	1837.3	1830.3	1830.3
27.5°	2400.3	2427.7	2288.8	2101.7	1929.4	1813.1	1791.3	1793.6	1791.3	1779.6	1782.0
30°	2538.4	2533.0	2299.8	2030.7	1807.7	1718.8	1720.4	1730.5	1732.0	1724.3	1728.2
32.5°	2720.1	2664.8	2305.2	1938.7	1691.5	1636.1	1637.7	1648.6	1656.4	1643.2	1649.4
35°	2940.0	2818.4	2296.7	1823.3	1601.9	1557.4	1545.7	1548.8	1551.1	1538.6	1547.2
37.5°	3196.7	2990.7	2258.5	1695.5	1527.8	1480.2	1455.2	1434.2	1421.7	1410.0	1417.8
40°	3478.1	3178.7	2188.3	1570.6	1445.0	1398.3	1360.9	1321.1	1279.0	1263.4	1270.4
42.5°	3772.9	3372.0	2103.3	1451.3	1349.9	1311.7	1271.9	1214.2	1151.1	1119.1	1123.0
45°	4078.7	3570.2	2019.9	1333.5	1252.4	1236.0	1190.0	1120.6	1052.1	1011.5	1008.4
47.5°	4378.1	3757.3	1897.4	1215.0	1161.2	1179.2	1143.3	1079.3	1002.9	938.9	931.9
50°	4664.3	3932.8	1697.0	1094.9	1087.1	1161.9	1127.7	1035.7	948.3	866.4	859.4
52.5°	4948.2	4074.8	1440.4	985.7	1047.3	1157.3	1107.4	1006.0	899.1	813.3	804.0
55°	5189.2	4148.1	1193.2	892.2	989.6	1117.6	1083.2	970.9	829.7	738.5	730.7
57.5°	5326.4	4088.8	987.3	800.1	910.1	1052.1	1041.9	896.1	747.1	676.9	667.6
60°	5267.2	3848.6	818.9	719.8	834.5	981.0	970.2	821.9	684.0	617.7	608.3
62.5°	4940.4	3390.8	685.5	649.6	765.8	908.6	898.4	765.1	635.6	571.6	561.5
65°	4282.1	2758.4	581.8	591.1	696.4	821.2	836.0	717.5	597.4	534.9	524.8
67.5°	3266.1	1998.0	500.7	540.5	628.5	735.4	778.3	683.2	565.4	506.1	496.8
70°	1861.5	1134.7	432.0	491.3	568.5	655.9	733.8	655.9	531.1	482.0	475.7
72.5°	705.8	520.9	373.5	442.2	510.8	588.8	684.7	612.9	491.3	454.7	448.4
75°	376.7	317.4	314.3	384.5	444.5	523.3	623.1	570.8	461.7	480.4	496.0
77.5°	256.6	224.6	262.8	329.1	372.0	450.8	557.6	506.9	400.1	398.5	367.4
80°	177.8	159.1	213.7	265.2	287.7	379.0	486.7	435.1	326.0	304.1	290.9
82.5°	106.8	103.7	159.9	198.1	203.6	292.4	403.2	365.0	266.7	232.4	234.0
85°	58.5	61.6	102.2	116.2	118.5	204.3	315.8	282.3	205.1	172.3	173.9
87.5°	16.4	21.0	37.4	46.0	56.9	106.1	188.0	167.7	102.9	71.8	71.8
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)