

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: STREETWORKS

Report Number: P1210359

Luminaire Tested: **ARCH3-100-722-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-100-722-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13408 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 102.6
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

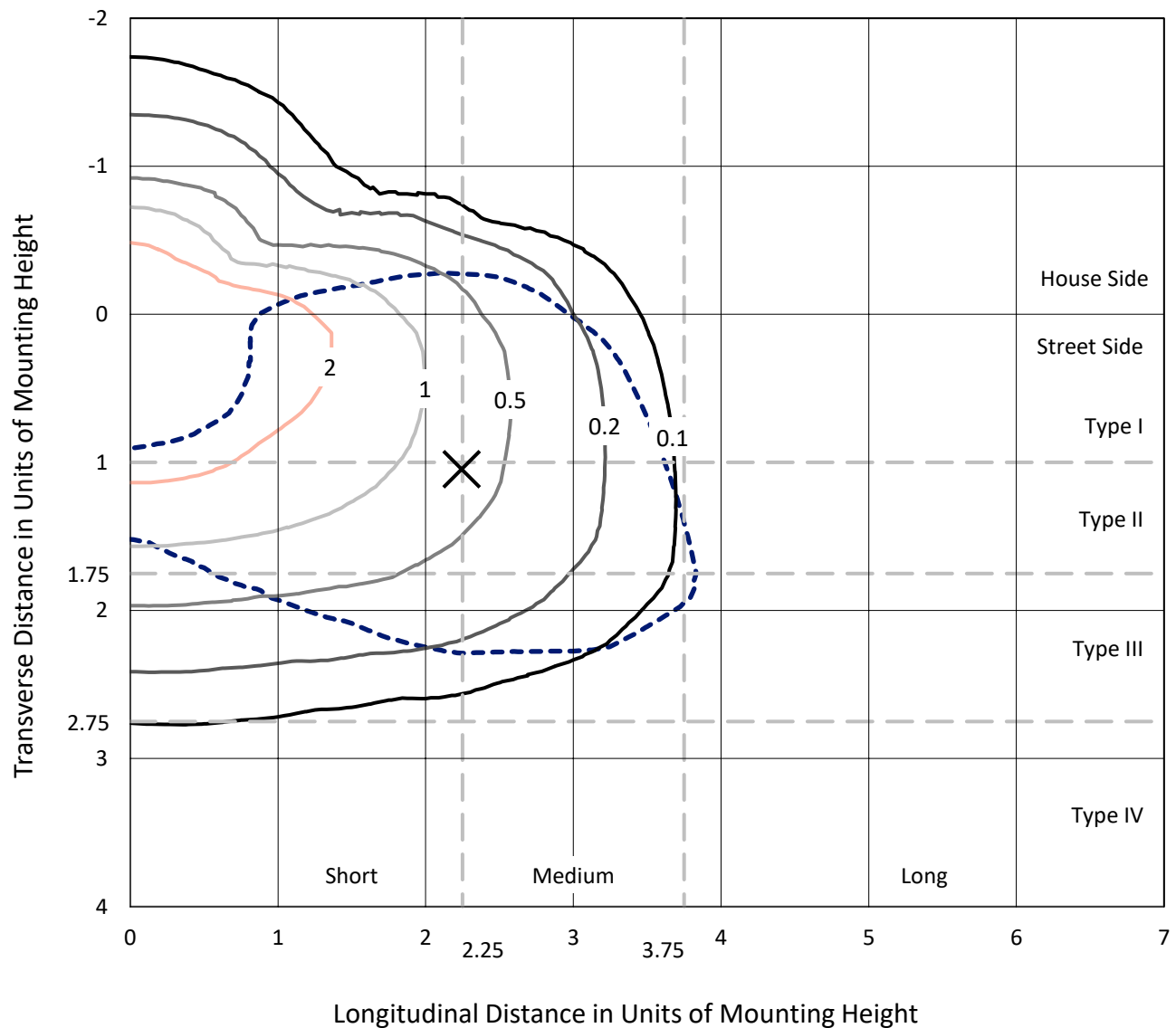


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Iso-Footcandle Lines of Horizontal Illumination

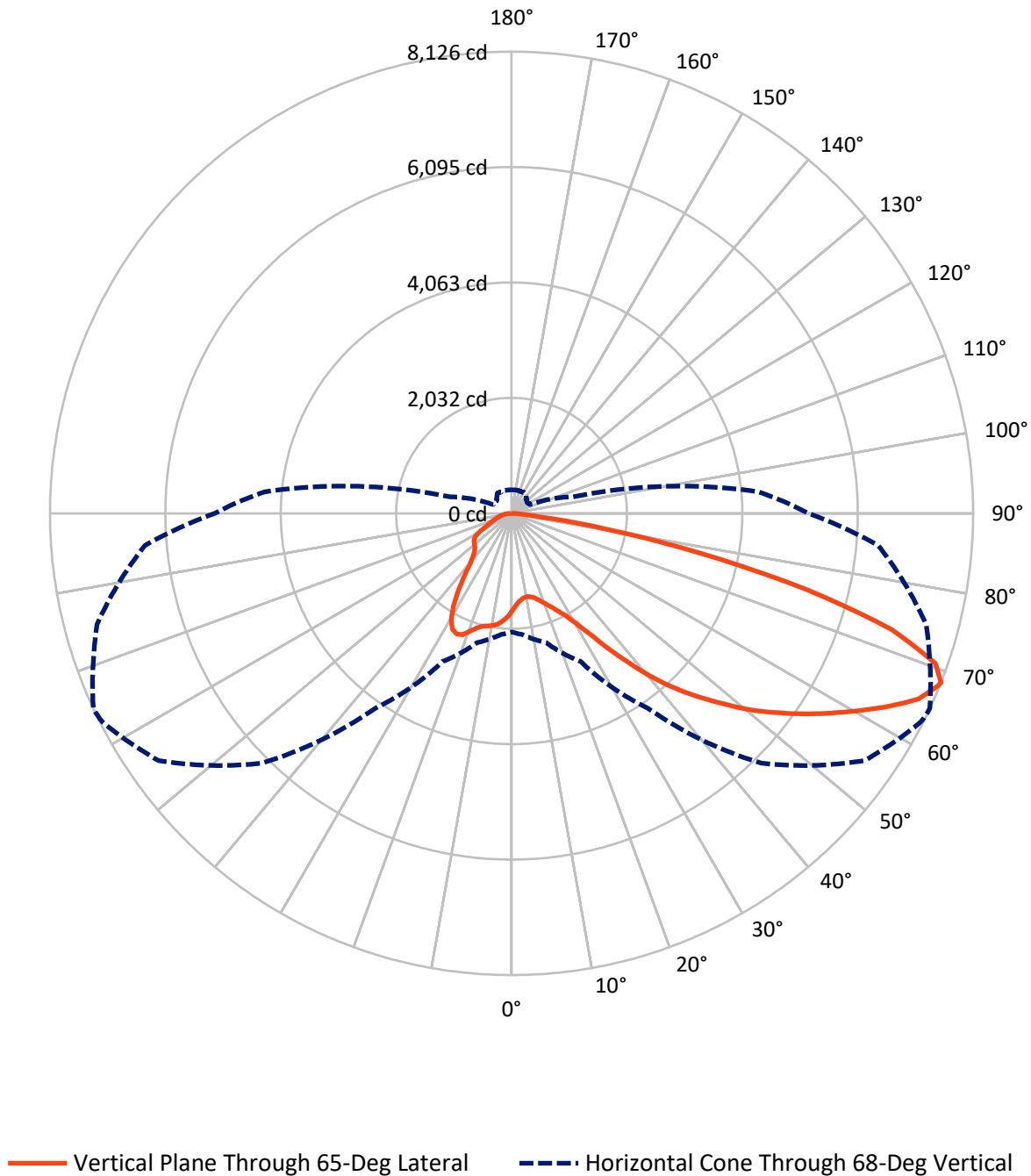
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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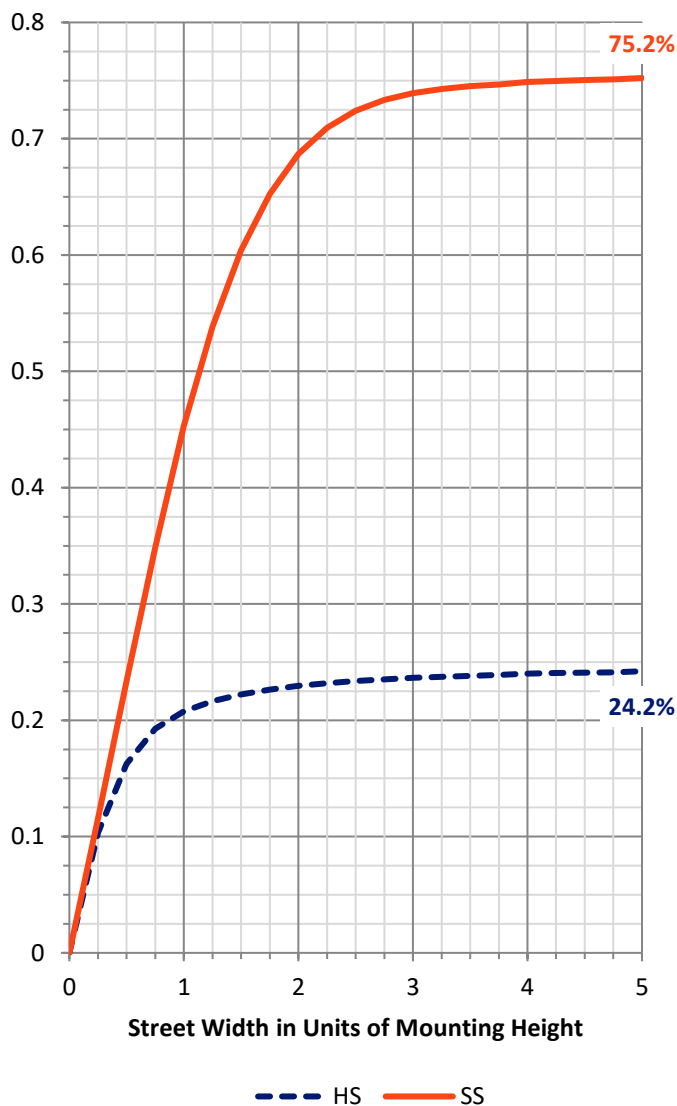
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3287.2	0.0	3287.2
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	10120.8	0.0	10120.8
	% Fixture	75.5	0.0	75.5
Total	Lumens	13408.0	0.0	13408.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.8	1.2
10°-20°	533.2	4.0
20°-30°	965.0	7.2
30°-40°	1518.0	11.3
40°-50°	2260.9	16.9
50°-60°	2965.9	22.1
60°-70°	3243.4	24.2
70°-80°	1604.9	12.0
80°-90°	153.1	1.1
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°	13408.0	100.0
0°-180°	13408.0	100.0

Coefficient of Utilization



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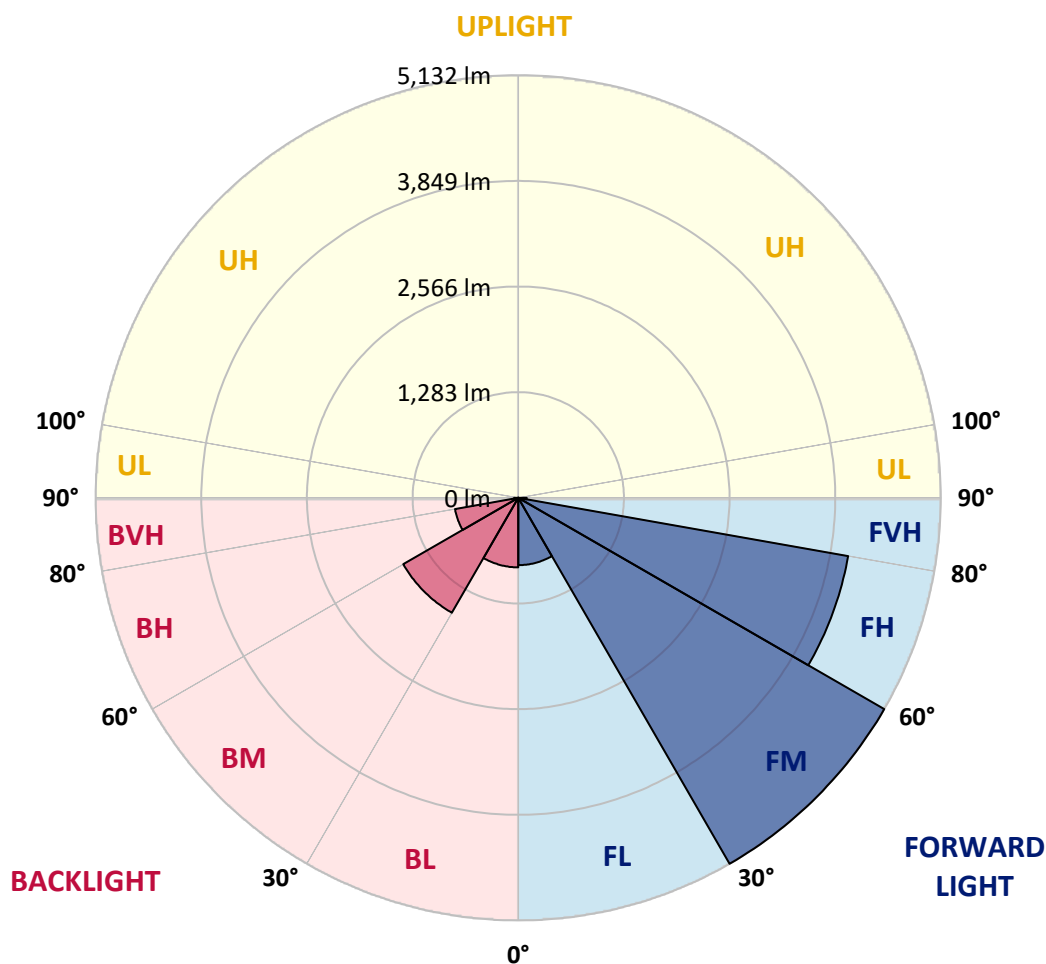
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	817.4	6.1			
FM	(30°-60°)	5132.4	38.3			
FH	(60°-80°)	4068.0	30.3			G2/5000
FVH	(80°-90°)	103.0	0.8			G2/225
BL	(0°-30°)	844.5	6.3	B2/1000		
BM	(30°-60°)	1612.4	12.0	B2/2500		
BH	(60°-80°)	780.2	5.8	B2/1000		G2/1000
BVH	(80°-90°)	50.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1713.4	1713.4	1713.4	1713.4	1713.4	1713.4	1713.4	1713.4	1713.4	1713.4	1713.4
2.5°	1495.5	1492.1	1500.7	1509.4	1528.4	1550.9	1582.0	1607.9	1611.4	1659.8	1697.8
5°	1407.4	1402.2	1410.8	1421.2	1429.8	1457.5	1490.3	1528.4	1543.9	1614.8	1696.1
7.5°	1416.0	1414.3	1417.7	1414.3	1414.3	1426.4	1448.9	1486.9	1504.2	1588.9	1704.7
10°	1466.1	1469.6	1471.3	1461.0	1450.6	1445.4	1452.3	1478.2	1490.3	1590.6	1742.8
12.5°	1549.1	1554.3	1556.0	1537.0	1523.2	1500.7	1488.6	1499.0	1507.6	1607.9	1796.4
15°	1661.5	1665.0	1652.9	1640.8	1606.2	1578.5	1549.1	1540.5	1543.9	1644.2	1856.9
17.5°	1792.9	1787.7	1787.7	1758.3	1713.4	1670.2	1621.7	1614.8	1614.8	1703.0	1943.3
20°	1936.4	1941.6	1926.0	1886.3	1841.3	1773.9	1725.5	1694.4	1697.8	1770.4	2048.8
22.5°	2143.9	2152.5	2111.0	2054.0	1984.8	1907.0	1837.9	1787.7	1789.5	1858.6	2157.7
25°	2366.9	2370.4	2344.4	2268.4	2175.0	2064.4	1972.7	1908.7	1907.0	1957.2	2297.8
27.5°	2595.1	2610.7	2558.8	2486.2	2399.8	2261.5	2140.4	2054.0	2040.1	2107.6	2472.4
30°	2830.3	2849.3	2799.2	2728.3	2621.1	2503.5	2360.0	2259.7	2251.1	2341.0	2705.8
32.5°	3067.1	3072.3	3032.6	2973.8	2877.0	2766.3	2650.5	2539.8	2531.2	2678.1	3008.4
35°	3260.8	3276.3	3248.7	3234.8	3164.0	3062.0	2949.6	2885.6	2908.1	3096.5	3400.8
37.5°	3494.2	3509.7	3478.6	3475.2	3452.7	3364.5	3286.7	3291.9	3314.4	3570.3	3814.0
40°	3831.3	3848.6	3769.1	3734.5	3734.5	3648.1	3622.1	3744.9	3774.3	4037.1	4244.5
42.5°	4116.6	4144.3	4097.6	4075.1	4007.7	3947.2	3978.3	4151.2	4201.3	4483.1	4619.7
45°	4254.9	4275.7	4331.0	4396.7	4331.0	4225.5	4343.1	4538.5	4609.4	4894.6	4994.9
47.5°	4329.3	4348.3	4412.3	4588.6	4633.6	4545.4	4711.4	4955.1	5003.6	5302.7	5352.8
50°	4339.6	4400.2	4483.1	4659.5	4865.2	4877.3	5081.4	5378.7	5435.8	5703.8	5667.5
52.5°	4254.9	4279.1	4450.3	4747.7	4975.9	5183.4	5484.2	5785.0	5826.5	6080.7	5945.8
55°	4116.6	4151.2	4322.3	4726.9	5083.1	5473.8	5894.0	6184.4	6231.1	6447.2	6203.4
57.5°	3992.1	4009.4	4192.7	4666.4	5190.3	5764.3	6258.8	6601.1	6632.2	6768.8	6393.6
60°	3853.8	3872.8	4056.1	4536.7	5269.8	5983.9	6639.1	7021.2	7048.9	7107.7	6614.9
62.5°	3495.9	3546.1	3776.0	4322.3	5249.1	6234.6	7045.4	7436.2	7470.7	7406.8	6789.5
65°	2838.9	2909.8	3191.6	3836.5	5055.4	6397.1	7377.4	7818.3	7877.0	7631.5	6836.2
67.5°	2204.4	2254.5	2481.0	3044.7	4375.9	6315.8	7591.8	8081.1	8098.4	7595.2	6576.9
68°	2090.3	2140.4	2356.5	2878.7	4187.5	6219.0	7586.6	8088.0	8126.0	7555.5	6476.6
70°	1599.3	1656.3	1862.1	2280.5	3374.9	5603.5	7270.2	7922.0	7916.8	7074.8	5854.2
72.5°	999.3	1032.2	1174.0	1438.5	2232.1	4263.6	6170.6	6986.6	7000.5	5767.7	4490.1
75°	634.5	634.5	627.6	696.8	1144.6	2429.2	4586.9	5378.7	5389.1	4038.8	2830.3
77.5°	551.5	536.0	461.6	390.7	456.4	944.0	2714.4	3473.4	3416.4	2175.0	1343.4
80°	465.1	439.2	378.6	314.7	293.9	295.6	1042.6	1763.5	1687.4	783.2	446.1
82.5°	335.4	312.9	285.3	247.2	226.5	176.4	217.8	510.0	497.9	226.5	145.2
85°	181.5	164.2	160.8	162.5	136.6	108.9	91.6	112.4	112.4	98.5	83.0
87.5°	64.0	46.7	55.3	62.2	53.6	45.0	36.3	43.2	45.0	43.2	39.8
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°	1713.4	1713.4	1713.4	1713.4	1713.4	1713.4	1713.4	1713.4	1713.4	1713.4	1713.4
2.5°	1720.3	1737.6	1779.1	1815.4	1841.3	1863.8	1875.9	1881.1	1893.2	1894.9	1891.5
5°	1734.1	1779.1	1841.3	1894.9	1924.3	1936.4	1939.9	1941.6	1936.4	1939.9	1936.4
7.5°	1770.4	1827.5	1915.7	1962.3	1967.5	1948.5	1950.2	1943.3	1950.2	1957.2	1957.2
10°	1825.8	1898.4	1981.4	1998.7	1976.2	1965.8	1986.6	2028.0	2041.9	2060.9	2060.9
12.5°	1898.4	1984.8	2043.6	2028.0	2007.3	2041.9	2102.4	2143.9	2157.7	2164.6	2159.4
15°	1981.4	2074.7	2104.1	2052.3	2090.3	2164.6	2185.4	2161.2	2126.6	2111.0	2119.7
17.5°	2086.8	2164.6	2147.3	2112.8	2199.2	2209.6	2142.2	2064.4	2009.0	1988.3	2002.1
20°	2197.5	2264.9	2185.4	2200.9	2254.5	2143.9	2015.9	1915.7	1867.3	1858.6	1872.4
22.5°	2315.1	2358.3	2223.4	2302.9	2223.4	1998.7	1844.8	1792.9	1780.8	1794.6	1806.7
25°	2448.2	2443.0	2289.1	2334.1	2107.6	1820.6	1728.9	1725.5	1725.5	1734.1	1751.4
27.5°	2598.6	2517.3	2354.8	2292.6	1907.0	1673.6	1656.3	1658.1	1652.9	1654.6	1663.2
30°	2773.2	2617.6	2427.4	2156.0	1682.3	1563.0	1556.0	1550.9	1538.8	1535.3	1538.8
32.5°	2992.8	2723.1	2501.8	1931.2	1485.2	1448.9	1445.4	1417.7	1388.3	1384.9	1397.0
35°	3271.2	2915.0	2539.8	1649.4	1322.6	1320.9	1308.8	1265.6	1227.5	1227.5	1218.9
37.5°	3589.3	3162.2	2555.4	1374.5	1187.8	1196.4	1161.8	1106.5	1077.1	1059.8	1065.0
40°	3914.3	3444.0	2553.6	1134.2	1070.2	1071.9	1046.0	978.6	906.0	862.7	873.1
42.5°	4227.3	3699.9	2508.7	1006.2	975.1	969.9	949.2	857.6	797.0	762.5	764.2
45°	4478.0	3964.5	2439.5	930.2	888.7	897.3	850.6	795.3	740.0	708.9	707.1
47.5°	4728.7	4165.0	2328.9	883.5	824.7	809.1	790.1	752.1	710.6	676.0	677.7
50°	4956.9	4336.2	2225.1	852.4	765.9	726.2	729.6	707.1	670.8	639.7	638.0
52.5°	5117.7	4448.6	2168.1	835.1	695.0	651.8	663.9	651.8	617.2	594.8	593.0
55°	5278.5	4535.0	2187.1	812.6	617.2	582.7	603.4	599.9	580.9	574.0	575.7
57.5°	5408.1	4600.7	2254.5	771.1	542.9	522.1	556.7	546.3	532.5	534.2	534.2
60°	5534.3	4685.4	2334.1	676.0	478.9	480.6	513.5	494.5	485.8	501.4	503.1
62.5°	5665.7	4777.1	2268.4	537.7	423.6	435.7	473.7	458.2	461.6	484.1	491.0
65°	5650.2	4768.4	1848.2	440.9	375.2	399.4	456.4	451.3	453.0	461.6	465.1
67.5°	5332.1	4464.1	1270.8	375.2	340.6	370.0	442.6	421.9	423.6	418.4	420.1
68°	5224.9	4356.9	1120.4	364.8	333.7	363.1	435.7	416.7	418.4	413.2	411.5
70°	4640.5	3731.1	708.9	321.6	309.5	344.1	401.1	394.2	392.5	389.0	389.0
72.5°	3537.4	2754.2	373.5	278.4	281.8	314.7	357.9	371.7	363.1	364.8	375.2
75°	2342.7	1656.3	259.3	238.6	247.2	269.7	318.1	345.8	337.1	342.3	337.1
77.5°	1239.6	892.1	207.5	202.3	202.3	217.8	262.8	306.0	306.0	302.6	297.4
80°	406.3	314.7	166.0	159.1	162.5	171.2	210.9	250.7	255.9	249.0	245.5
82.5°	136.6	145.2	124.5	115.8	119.3	126.2	159.1	191.9	193.6	179.8	176.4
85°	84.7	96.8	77.8	76.1	76.1	77.8	96.8	105.5	96.8	86.4	89.9
87.5°	39.8	48.4	36.3	31.1	25.9	22.5	17.3	6.9	6.9	3.5	3.5
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)