

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: P1210823

Luminaire Tested: **ARCH3-80-740-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210823
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: ARCH3-80-740-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 650mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13332 lumens
Efficiency: N/A
Efficacy: 162.8 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): 81.9
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

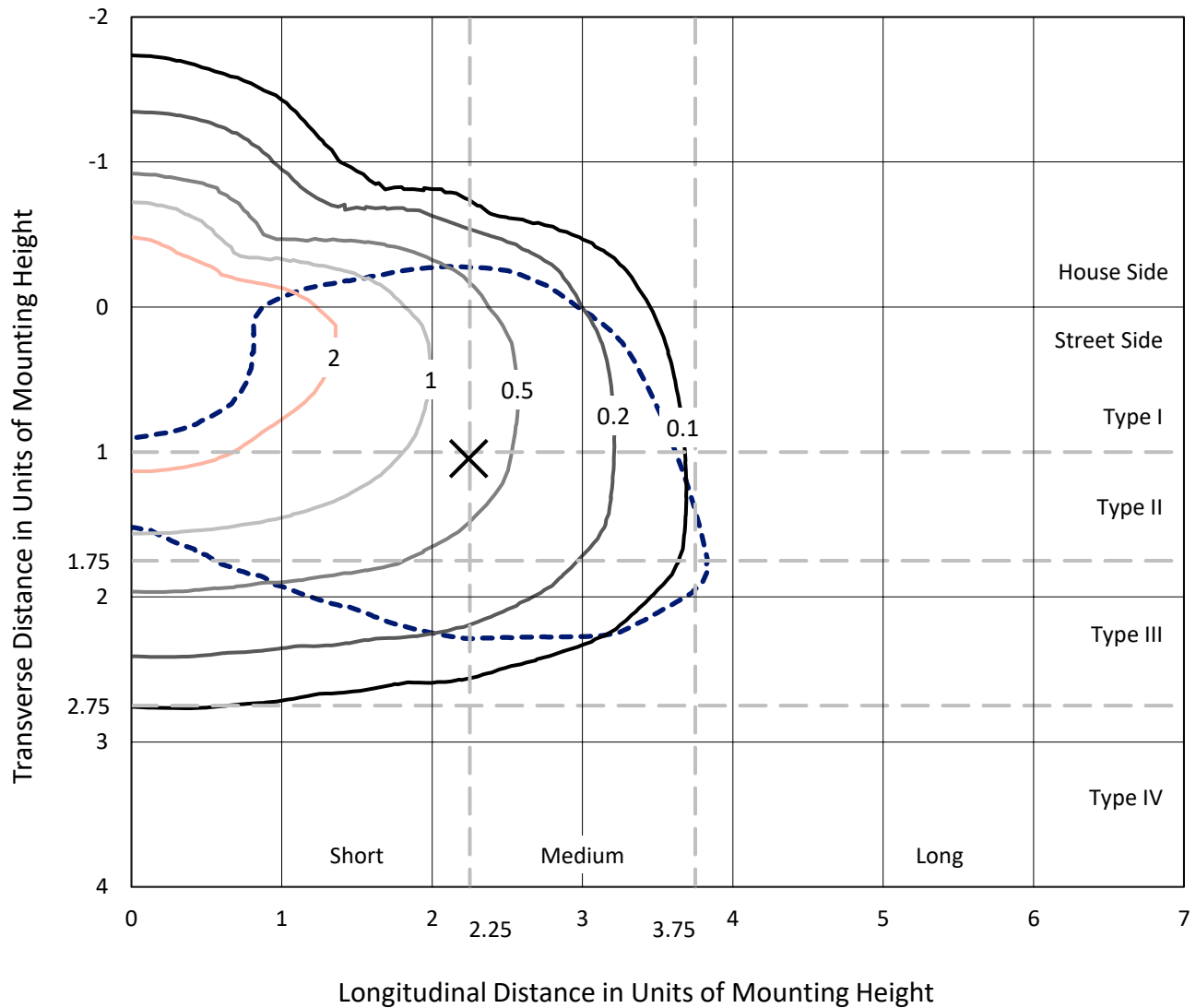


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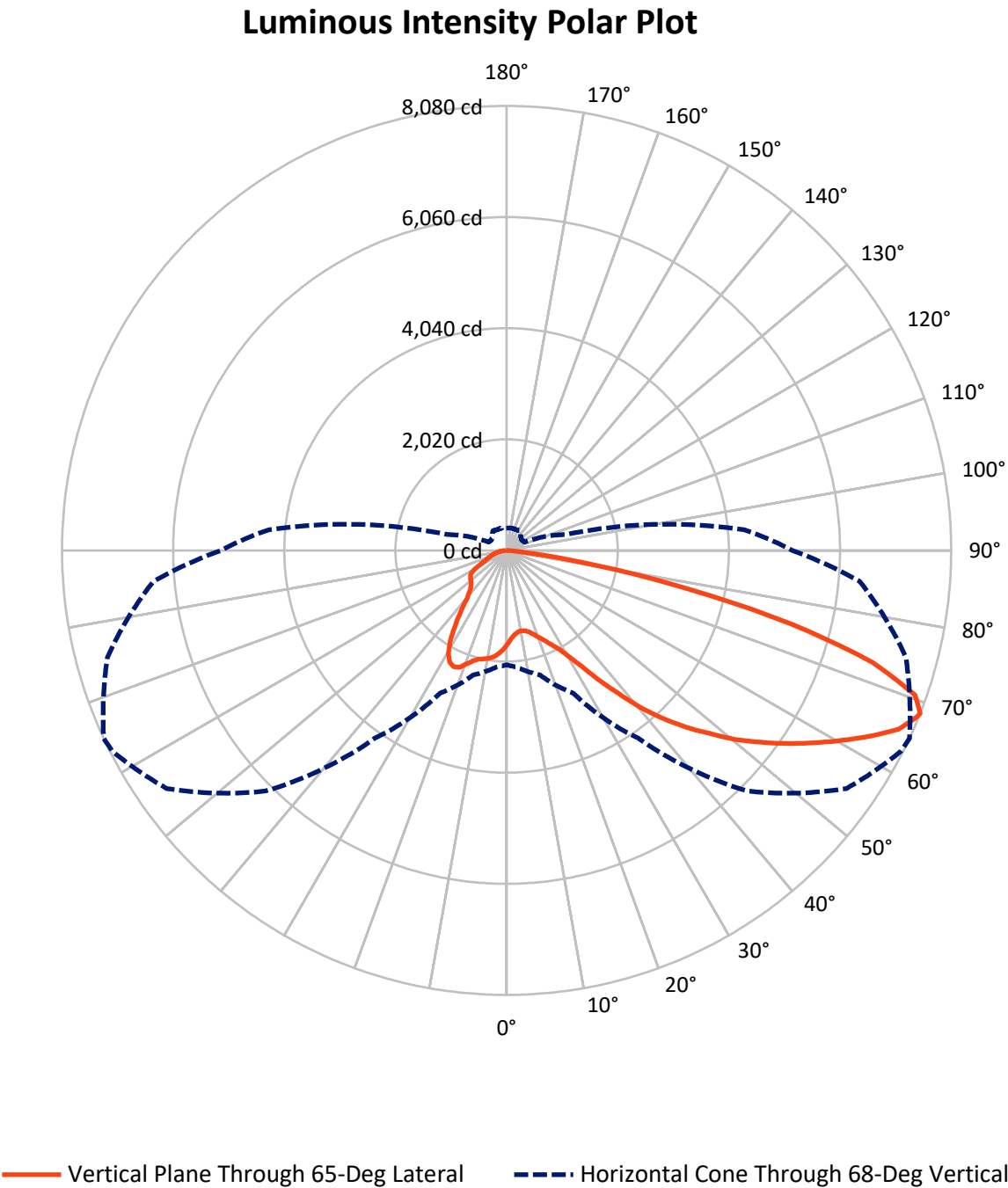
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



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

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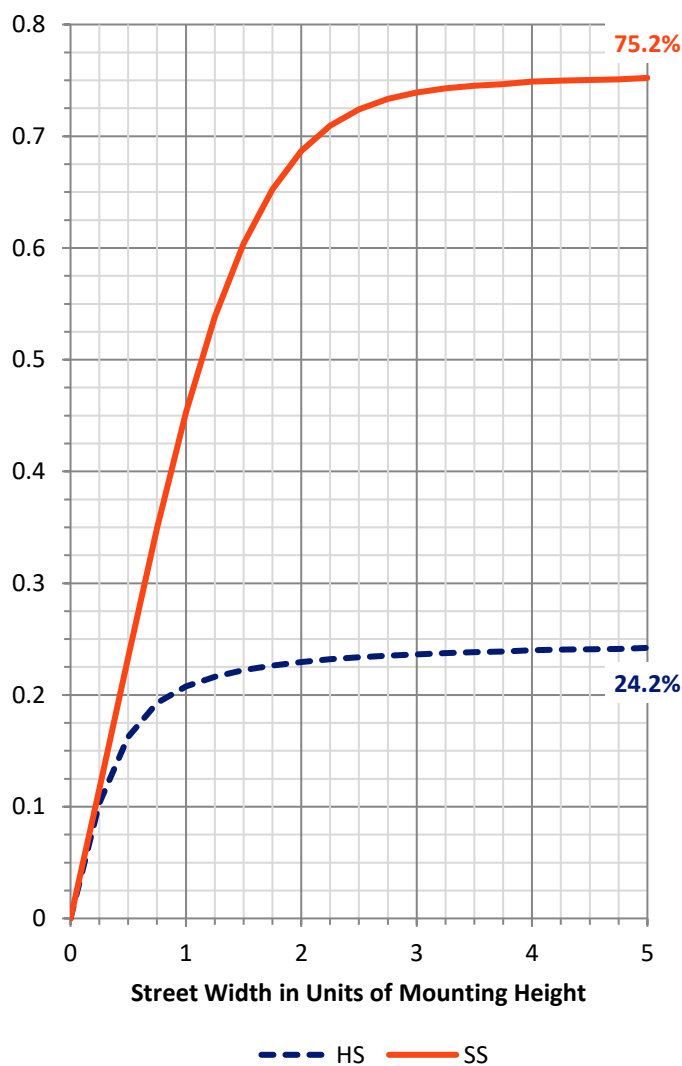
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3268.6	0.0	3268.6
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	10063.4	0.0	10063.4
	% Fixture	75.5	0.0	75.5
Total	Lumens	13332.0	0.0	13332.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.8	1.2
10°-20°	530.1	4.0
20°-30°	959.5	7.2
30°-40°	1509.4	11.3
40°-50°	2248.1	16.9
50°-60°	2949.0	22.1
60°-70°	3225.0	24.2
70°-80°	1595.8	12.0
80°-90°	152.2	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°	13332.0	100.0
0°-180°	13332.0	100.0

Coefficient of Utilization



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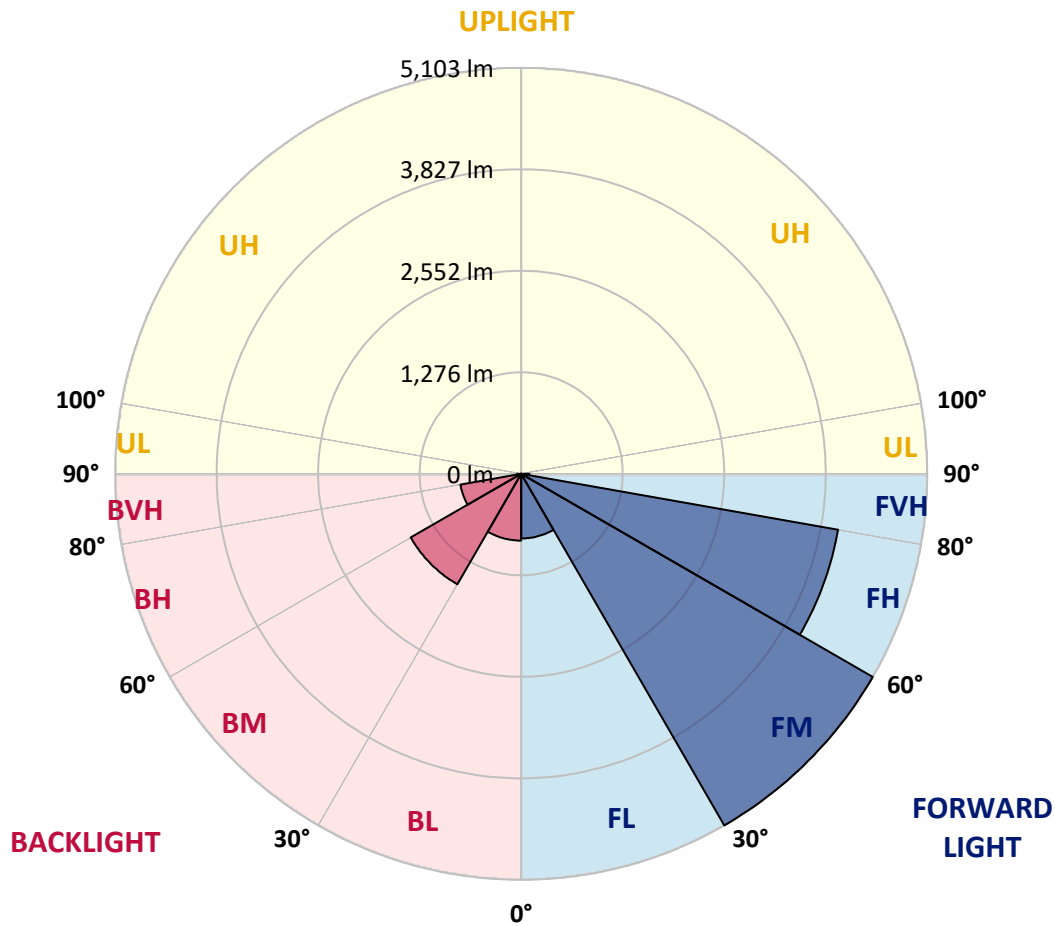
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	812.7	6.1			
FM	(30°-60°)	5103.3	38.3			
FH	(60°-80°)	4045.0	30.3			G2/5000
FVH	(80°-90°)	102.4	0.8			G2/225
BL	(0°-30°)	839.7	6.3	B2/1000		
BM	(30°-60°)	1603.2	12.0	B2/2500		
BH	(60°-80°)	775.8	5.8	B2/1000		G2/1000
BVH	(80°-90°)	49.8	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°	1703.7	1703.7	1703.7	1703.7	1703.7	1703.7	1703.7	1703.7	1703.7	1703.7	1703.7
2.5°	1487.1	1483.6	1492.2	1500.8	1519.7	1542.1	1573.0	1598.8	1602.2	1650.4	1688.2
5°	1399.4	1394.2	1402.8	1413.1	1421.7	1449.2	1481.9	1519.7	1535.2	1605.7	1686.5
7.5°	1408.0	1406.3	1409.7	1406.3	1406.3	1418.3	1440.6	1478.5	1495.7	1579.9	1695.1
10°	1457.8	1461.3	1463.0	1452.7	1442.4	1437.2	1444.1	1469.9	1481.9	1581.6	1732.9
12.5°	1540.3	1545.5	1547.2	1528.3	1514.6	1492.2	1480.2	1490.5	1499.1	1598.8	1786.2
15°	1652.1	1655.5	1643.5	1631.5	1597.1	1569.6	1540.3	1531.8	1535.2	1634.9	1846.4
17.5°	1782.7	1777.6	1777.6	1748.4	1703.7	1660.7	1612.6	1605.7	1605.7	1693.4	1932.3
20°	1925.4	1930.6	1915.1	1875.6	1830.9	1763.8	1715.7	1684.8	1688.2	1760.4	2037.2
22.5°	2131.7	2140.3	2099.1	2042.3	1973.6	1896.2	1827.4	1777.6	1779.3	1848.1	2145.5
25°	2353.5	2356.9	2331.2	2255.5	2162.7	2052.7	1961.5	1897.9	1896.2	1946.1	2284.7
27.5°	2580.4	2595.9	2544.3	2472.1	2386.2	2248.6	2128.3	2042.3	2028.6	2095.6	2458.4
30°	2814.2	2833.1	2783.3	2712.8	2606.2	2489.3	2346.6	2246.9	2238.3	2327.7	2690.5
32.5°	3049.8	3054.9	3015.4	2956.9	2860.6	2750.6	2635.4	2525.4	2516.8	2662.9	2991.3
35°	3242.3	3257.8	3230.3	3216.5	3146.0	3044.6	2932.9	2869.2	2891.6	3079.0	3381.5
37.5°	3474.4	3489.9	3458.9	3455.5	3433.1	3345.4	3268.1	3273.2	3295.6	3550.0	3792.4
40°	3809.6	3826.8	3747.7	3713.3	3713.3	3627.4	3601.6	3723.7	3752.9	4014.2	4220.5
42.5°	4093.3	4120.8	4074.4	4052.0	3985.0	3924.8	3955.7	4127.7	4177.5	4457.7	4593.5
45°	4230.8	4251.4	4306.4	4371.8	4306.4	4201.6	4318.5	4512.7	4583.2	4866.9	4966.6
47.5°	4304.7	4323.6	4387.2	4562.6	4607.3	4519.6	4684.7	4927.1	4975.2	5272.6	5322.5
50°	4315.0	4375.2	4457.7	4633.1	4837.7	4849.7	5052.6	5348.2	5405.0	5671.4	5635.3
52.5°	4230.8	4254.9	4425.1	4720.8	4947.7	5154.0	5453.1	5752.2	5793.5	6046.2	5912.1
55°	4093.3	4127.7	4297.8	4700.1	5054.3	5442.8	5860.5	6149.4	6195.8	6410.7	6168.3
57.5°	3969.5	3986.7	4168.9	4640.0	5160.9	5731.6	6223.3	6563.7	6594.6	6730.4	6357.4
60°	3832.0	3850.9	4033.1	4511.0	5239.9	5949.9	6601.5	6981.4	7008.9	7067.4	6577.4
62.5°	3476.1	3526.0	3754.6	4297.8	5219.3	6199.2	7005.5	7394.0	7428.4	7364.8	6751.1
65°	2822.8	2893.3	3173.5	3814.8	5026.8	6360.8	7335.6	7773.9	7832.4	7588.3	6797.5
67.5°	2191.9	2241.8	2467.0	3027.4	4351.1	6280.0	7548.7	8035.3	8052.5	7552.2	6539.6
68°	2078.4	2128.3	2343.2	2862.4	4163.8	6183.7	7543.6	8042.1	8080.0	7512.6	6439.9
70°	1590.2	1646.9	1851.5	2267.5	3355.8	5571.7	7229.0	7877.1	7871.9	7034.7	5821.0
72.5°	993.7	1026.3	1167.3	1430.3	2219.4	4239.4	6135.6	6947.0	6960.8	5735.1	4464.6
75°	630.9	630.9	624.0	692.8	1138.1	2415.4	4560.9	5348.2	5358.6	4015.9	2814.2
77.5°	548.4	532.9	459.0	388.5	453.9	938.7	2699.0	3453.8	3397.0	2162.7	1335.8
80°	462.4	436.7	376.5	312.9	292.3	294.0	1036.6	1753.5	1677.9	778.8	443.5
82.5°	333.5	311.2	283.7	245.8	225.2	175.4	216.6	507.1	495.1	225.2	144.4
85°	180.5	163.3	159.9	161.6	135.8	108.3	91.1	111.7	111.7	98.0	82.5
87.5°	63.6	46.4	55.0	61.9	53.3	44.7	36.1	43.0	44.7	43.0	39.5
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°	1703.7	1703.7	1703.7	1703.7	1703.7	1703.7	1703.7	1703.7	1703.7	1703.7	1703.7
2.5°	1710.5	1727.7	1769.0	1805.1	1830.9	1853.2	1865.3	1870.4	1882.5	1884.2	1880.7
5°	1724.3	1769.0	1830.9	1884.2	1913.4	1925.4	1928.9	1930.6	1925.4	1928.9	1925.4
7.5°	1760.4	1817.1	1904.8	1951.2	1956.4	1937.5	1939.2	1932.3	1939.2	1946.1	1946.1
10°	1815.4	1887.6	1970.1	1987.3	1965.0	1954.7	1975.3	2016.6	2030.3	2049.2	2049.2
12.5°	1887.6	1973.6	2032.0	2016.6	1995.9	2030.3	2090.5	2131.7	2145.5	2152.4	2147.2
15°	1970.1	2063.0	2092.2	2040.6	2078.4	2152.4	2173.0	2148.9	2114.5	2099.1	2107.7
17.5°	2075.0	2152.4	2135.2	2100.8	2186.7	2197.1	2130.0	2052.7	1997.6	1977.0	1990.8
20°	2185.0	2252.1	2173.0	2188.5	2241.8	2131.7	2004.5	1904.8	1856.7	1848.1	1861.8
22.5°	2301.9	2344.9	2210.8	2289.9	2210.8	1987.3	1834.3	1782.7	1770.7	1784.5	1796.5
25°	2434.3	2429.1	2276.1	2320.8	2095.6	1810.3	1719.1	1715.7	1715.7	1724.3	1741.5
27.5°	2583.9	2503.1	2341.5	2279.6	1896.2	1664.1	1646.9	1648.7	1643.5	1645.2	1653.8
30°	2757.5	2602.8	2413.7	2143.8	1672.7	1554.1	1547.2	1542.1	1530.0	1526.6	1530.0
32.5°	2975.8	2707.6	2487.6	1920.3	1476.7	1440.6	1437.2	1409.7	1380.5	1377.0	1389.1
35°	3252.6	2898.5	2525.4	1640.1	1315.1	1313.4	1301.4	1258.4	1220.6	1220.6	1212.0
37.5°	3568.9	3144.3	2540.9	1366.7	1181.0	1189.6	1155.3	1100.2	1071.0	1053.8	1059.0
40°	3892.1	3424.5	2539.2	1127.8	1064.1	1065.9	1040.1	973.0	900.8	857.9	868.2
42.5°	4203.3	3679.0	2494.5	1000.5	969.6	964.4	943.8	852.7	792.5	758.1	759.9
45°	4452.6	3942.0	2425.7	924.9	883.6	892.2	845.8	790.8	735.8	704.8	703.1
47.5°	4701.8	4141.4	2315.7	878.5	820.0	804.6	785.6	747.8	706.6	672.2	673.9
50°	4928.8	4311.6	2212.5	847.5	761.6	722.0	725.5	703.1	667.0	636.1	634.4
52.5°	5088.7	4423.3	2155.8	830.3	691.1	648.1	660.1	648.1	613.7	591.4	589.7
55°	5248.5	4509.3	2174.7	808.0	613.7	579.4	600.0	596.5	577.6	570.8	572.5
57.5°	5377.5	4574.6	2241.8	766.7	539.8	519.2	553.6	543.2	529.5	531.2	531.2
60°	5503.0	4658.9	2320.8	672.2	476.2	477.9	510.6	491.7	483.1	498.6	500.3
62.5°	5633.6	4750.0	2255.5	534.7	421.2	433.2	471.0	455.6	459.0	481.4	488.2
65°	5618.1	4741.4	1837.8	438.4	373.1	397.1	453.9	448.7	450.4	459.0	462.4
67.5°	5301.8	4438.8	1263.6	373.1	338.7	367.9	440.1	419.5	421.2	416.0	417.8
68°	5195.2	4332.2	1114.0	362.7	331.8	361.0	433.2	414.3	416.0	410.9	409.2
70°	4614.2	3709.9	704.8	319.8	307.7	342.1	398.8	392.0	390.2	386.8	386.8
72.5°	3517.4	2738.6	371.3	276.8	280.2	312.9	355.9	369.6	361.0	362.7	373.1
75°	2329.4	1646.9	257.9	237.2	245.8	268.2	316.3	343.8	335.2	340.4	335.2
77.5°	1232.6	887.1	206.3	201.1	201.1	216.6	261.3	304.3	304.3	300.8	295.7
80°	404.0	312.9	165.0	158.2	161.6	170.2	209.7	249.3	254.4	247.6	244.1
82.5°	135.8	144.4	123.8	115.2	118.6	125.5	158.2	190.8	192.5	178.8	175.4
85°	84.2	96.3	77.4	75.6	75.6	77.4	96.3	104.9	96.3	86.0	89.4
87.5°	39.5	48.1	36.1	30.9	25.8	22.3	17.2	6.9	6.9	3.4	3.4
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)