

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: P1210783

Luminaire Tested: **ARCH3-70-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210783
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: ARCH3-70-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11486 lumens
Efficiency: N/A
Efficacy: 157.1 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): 73.1
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

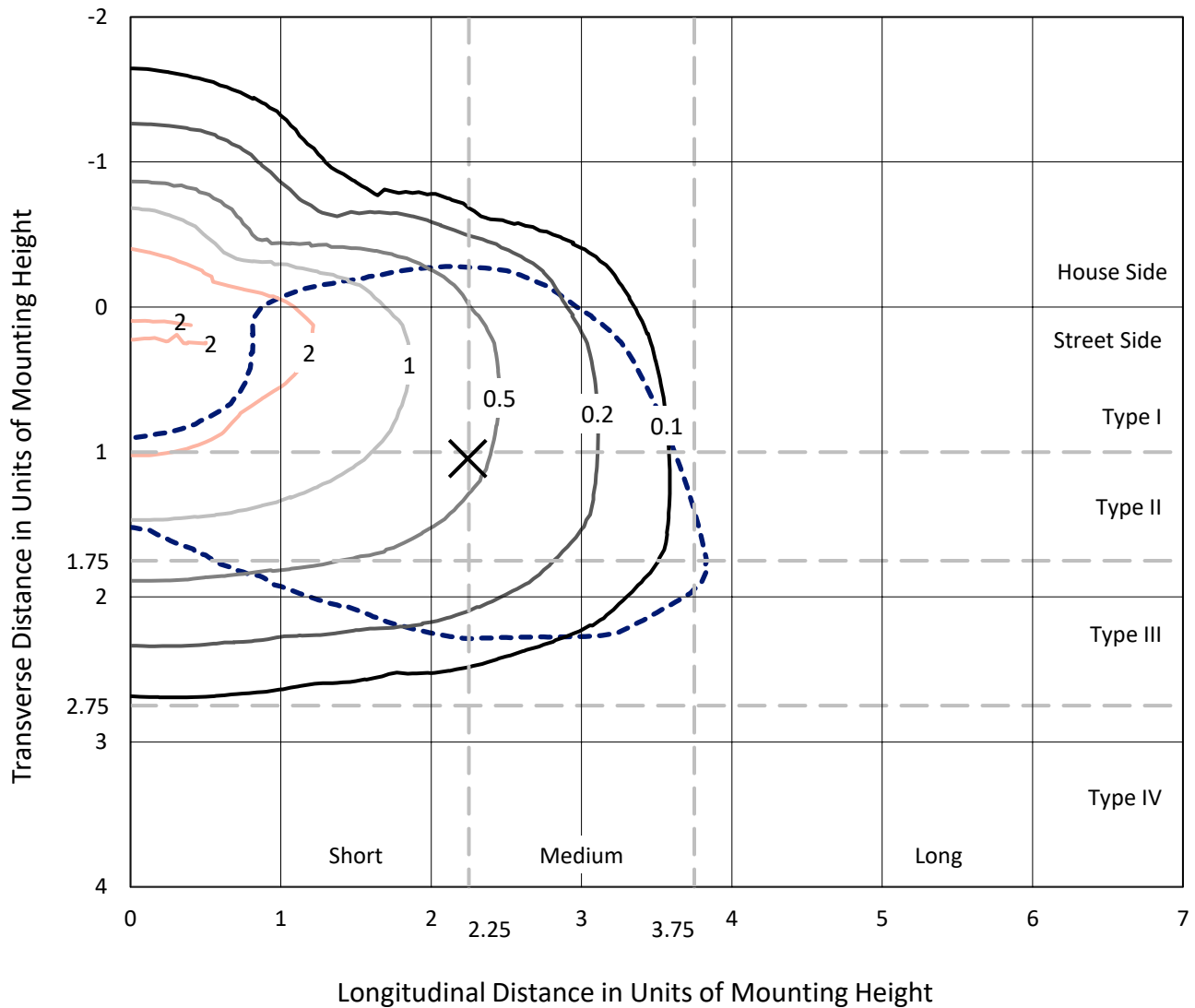


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
--- 1/2 Max cd

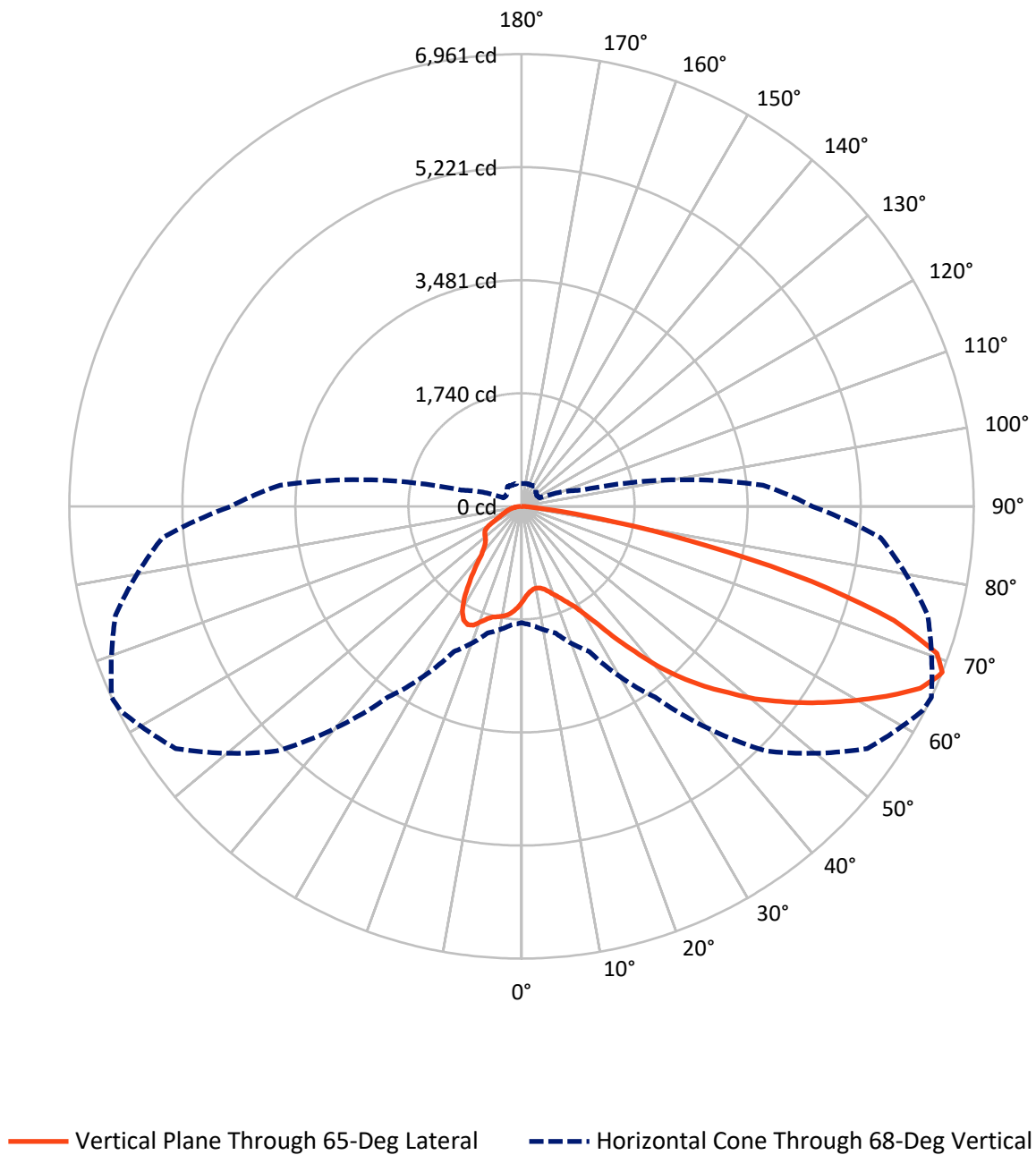


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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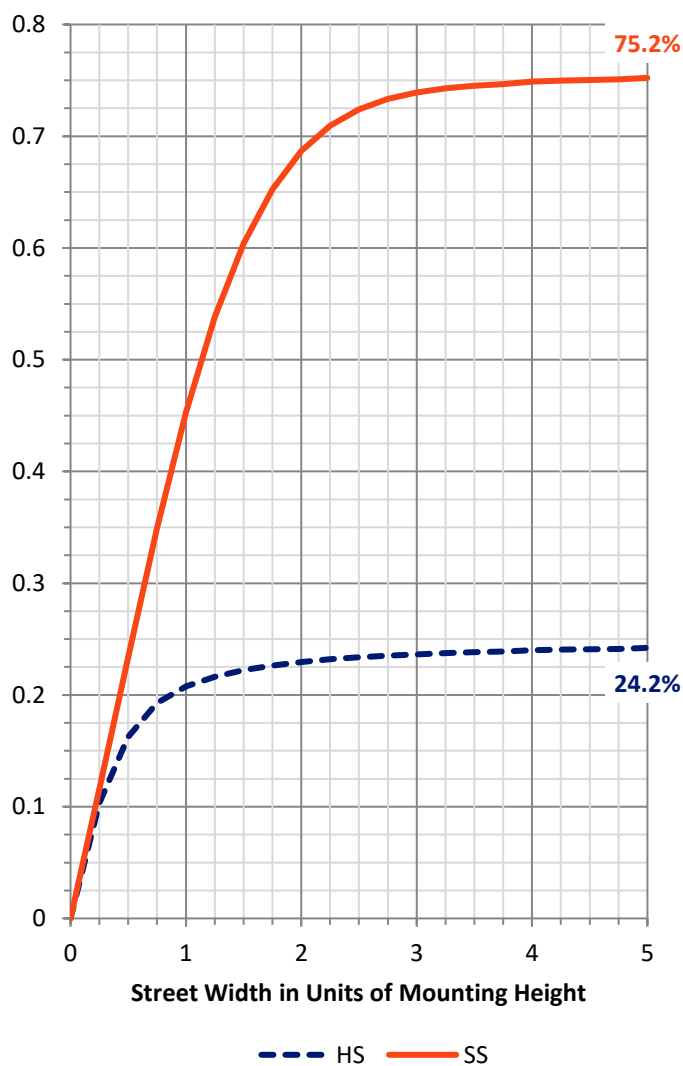
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2816.0	0.0	2816.0
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	8670.0	0.0	8670.0
	% Fixture	75.5	0.0	75.5
Total	Lumens	11486.0	0.0	11486.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.3	1.2
10°-20°	456.7	4.0
20°-30°	826.6	7.2
30°-40°	1300.4	11.3
40°-50°	1936.8	16.9
50°-60°	2540.7	22.1
60°-70°	2778.4	24.2
70°-80°	1374.8	12.0
80°-90°	131.1	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°	11486.0	100.0
0°-180°	11486.0	100.0

Coefficient of Utilization



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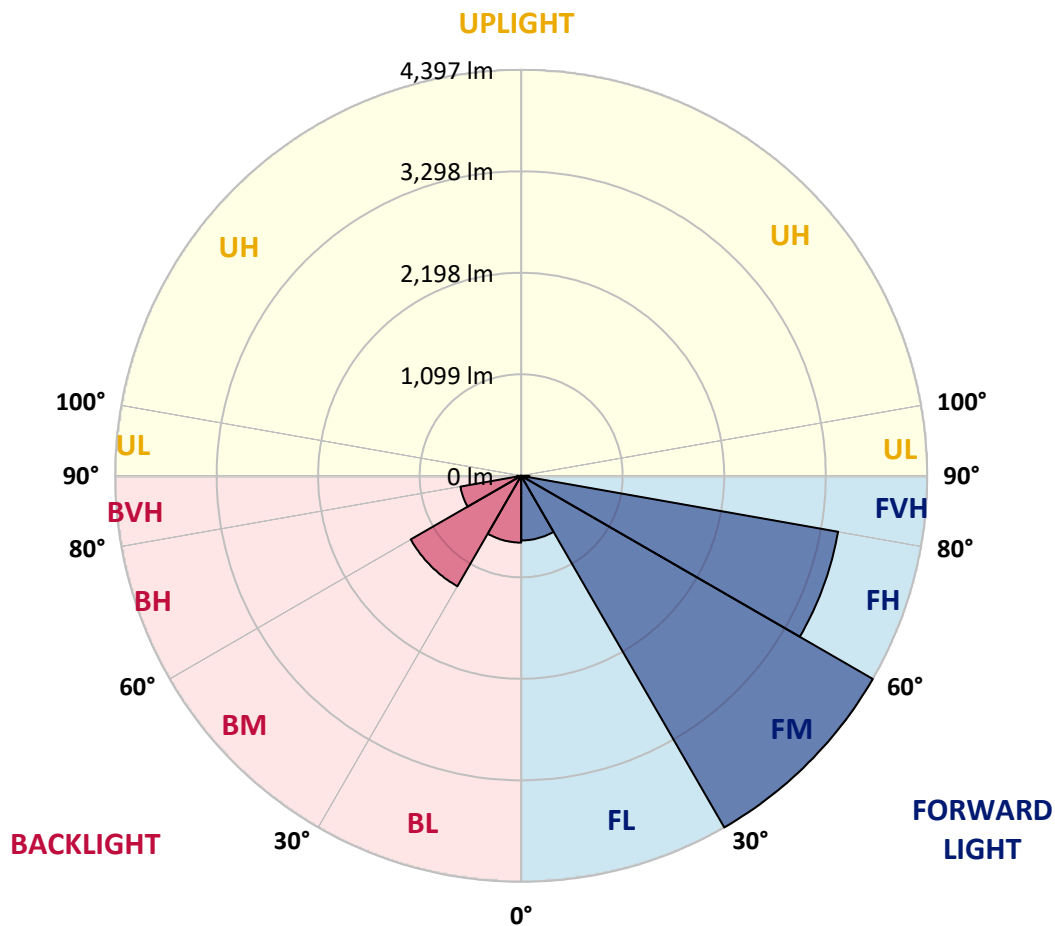
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	700.2	6.1			
FM	(30°-60°)	4396.7	38.3			
FH	(60°-80°)	3484.9	30.3			G2/5000
FVH	(80°-90°)	88.2	0.8			G1/100
BL	(0°-30°)	723.5	6.3	B2/1000		
BM	(30°-60°)	1381.2	12.0	B2/2500		
BH	(60°-80°)	668.4	5.8	B2/1000		G2/1000
BVH	(80°-90°)	42.9	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°	1467.8	1467.8	1467.8	1467.8	1467.8	1467.8	1467.8	1467.8	1467.8	1467.8	1467.8
2.5°	1281.2	1278.2	1285.6	1293.0	1309.3	1328.5	1355.2	1377.4	1380.4	1421.9	1454.4
5°	1205.6	1201.2	1208.6	1217.5	1224.9	1248.6	1276.7	1309.3	1322.6	1383.3	1453.0
7.5°	1213.0	1211.5	1214.5	1211.5	1211.5	1221.9	1241.2	1273.7	1288.6	1361.1	1460.4
10°	1256.0	1258.9	1260.4	1251.5	1242.6	1238.2	1244.1	1266.3	1276.7	1362.6	1492.9
12.5°	1327.1	1331.5	1333.0	1316.7	1304.9	1285.6	1275.2	1284.1	1291.5	1377.4	1538.9
15°	1423.3	1426.3	1415.9	1405.6	1375.9	1352.2	1327.1	1319.7	1322.6	1408.5	1590.7
17.5°	1535.9	1531.5	1531.5	1506.3	1467.8	1430.7	1389.3	1383.3	1383.3	1458.9	1664.8
20°	1658.8	1663.3	1649.9	1615.9	1577.4	1519.6	1478.1	1451.5	1454.4	1516.6	1755.1
22.5°	1836.6	1844.0	1808.4	1759.5	1700.3	1633.7	1574.4	1531.5	1532.9	1592.2	1848.4
25°	2027.6	2030.6	2008.4	1943.2	1863.2	1768.4	1689.9	1635.1	1633.7	1676.6	1968.4
27.5°	2223.1	2236.5	2192.0	2129.8	2055.8	1937.3	1833.6	1759.5	1747.7	1805.5	2118.0
30°	2424.6	2440.9	2397.9	2337.2	2245.3	2144.6	2021.7	1935.8	1928.4	2005.4	2317.9
32.5°	2627.5	2631.9	2597.9	2547.5	2464.6	2369.8	2270.5	2175.7	2168.3	2294.2	2577.1
35°	2793.4	2806.7	2783.0	2771.1	2710.4	2623.0	2526.8	2472.0	2491.2	2652.7	2913.3
37.5°	2993.3	3006.6	2980.0	2977.0	2957.8	2882.2	2815.6	2820.0	2839.3	3058.5	3267.3
40°	3282.1	3296.9	3228.8	3199.2	3199.2	3125.1	3102.9	3208.1	3233.2	3458.4	3636.1
42.5°	3526.5	3550.2	3510.2	3491.0	3433.2	3381.4	3408.0	3556.1	3599.1	3840.5	3957.5
45°	3645.0	3662.8	3710.2	3766.4	3710.2	3619.8	3720.5	3887.9	3948.6	4193.0	4278.9
47.5°	3708.7	3725.0	3779.8	3930.8	3969.4	3893.8	4036.0	4244.8	4286.3	4542.5	4585.5
50°	3717.6	3769.4	3840.5	3991.6	4167.8	4178.2	4353.0	4607.7	4656.6	4886.2	4855.0
52.5°	3645.0	3665.7	3812.4	4067.1	4262.6	4440.3	4698.1	4955.8	4991.3	5209.0	5093.5
55°	3526.5	3556.1	3702.8	4049.3	4354.4	4689.2	5049.1	5297.9	5337.9	5523.0	5314.2
57.5°	3419.9	3434.7	3591.7	3997.5	4446.3	4938.0	5361.6	5654.8	5681.5	5798.5	5477.1
60°	3301.4	3317.7	3474.7	3886.4	4514.4	5126.1	5687.4	6014.8	6038.4	6088.8	5666.7
62.5°	2994.8	3037.7	3234.7	3702.8	4496.6	5340.9	6035.5	6370.2	6399.8	6345.0	5816.3
65°	2432.0	2492.7	2734.1	3286.6	4330.7	5480.1	6319.9	6697.5	6747.9	6537.6	5856.3
67.5°	1888.4	1931.4	2125.4	2608.2	3748.7	5410.5	6503.5	6922.7	6937.5	6506.5	5634.1
68°	1790.7	1833.6	2018.7	2466.0	3587.2	5327.5	6499.1	6928.6	6961.2	6472.4	5548.2
70°	1370.0	1418.9	1595.1	1953.6	2891.1	4800.2	6228.0	6786.4	6782.0	6060.7	5015.0
72.5°	856.1	884.2	1005.7	1232.3	1912.1	3652.4	5286.0	5985.1	5997.0	4941.0	3846.4
75°	543.6	543.6	537.6	596.9	980.5	2080.9	3929.4	4607.7	4616.6	3459.9	2424.6
77.5°	472.5	459.1	395.5	334.7	391.0	808.7	2325.3	2975.5	2926.7	1863.2	1150.8
80°	398.4	376.2	324.4	269.6	251.8	253.3	893.1	1510.7	1445.6	670.9	382.1
82.5°	287.3	268.1	244.4	211.8	194.0	151.1	186.6	436.9	426.6	194.0	124.4
85°	155.5	140.7	137.7	139.2	117.0	93.3	78.5	96.3	96.3	84.4	71.1
87.5°	54.8	40.0	47.4	53.3	45.9	38.5	31.1	37.0	38.5	37.0	34.1
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°	1467.8	1467.8	1467.8	1467.8	1467.8	1467.8	1467.8	1467.8	1467.8	1467.8	1467.8
2.5°	1473.7	1488.5	1524.1	1555.2	1577.4	1596.6	1607.0	1611.4	1621.8	1623.3	1620.3
5°	1485.5	1524.1	1577.4	1623.3	1648.5	1658.8	1661.8	1663.3	1658.8	1661.8	1658.8
7.5°	1516.6	1565.5	1641.1	1681.0	1685.5	1669.2	1670.7	1664.8	1670.7	1676.6	1676.6
10°	1564.0	1626.2	1697.3	1712.2	1692.9	1684.0	1701.8	1737.3	1749.2	1765.5	1765.5
12.5°	1626.2	1700.3	1750.7	1737.3	1719.6	1749.2	1801.0	1836.6	1848.4	1854.3	1849.9
15°	1697.3	1777.3	1802.5	1758.1	1790.7	1854.3	1872.1	1851.4	1821.8	1808.4	1815.8
17.5°	1787.7	1854.3	1839.5	1809.9	1884.0	1892.8	1835.1	1768.4	1721.0	1703.3	1715.1
20°	1882.5	1940.2	1872.1	1885.4	1931.4	1836.6	1727.0	1641.1	1599.6	1592.2	1604.0
22.5°	1983.2	2020.2	1904.7	1972.8	1904.7	1712.2	1580.3	1535.9	1525.5	1537.4	1547.8
25°	2097.2	2092.8	1961.0	1999.5	1805.5	1559.6	1481.1	1478.1	1478.1	1485.5	1500.4
27.5°	2226.1	2156.5	2017.3	1963.9	1633.7	1433.7	1418.9	1420.4	1415.9	1417.4	1424.8
30°	2375.7	2242.4	2079.5	1846.9	1441.1	1338.9	1333.0	1328.5	1318.2	1315.2	1318.2
32.5°	2563.8	2332.7	2143.2	1654.4	1272.3	1241.2	1238.2	1214.5	1189.3	1186.4	1196.7
35°	2802.2	2497.1	2175.7	1413.0	1133.0	1131.6	1121.2	1084.2	1051.6	1051.6	1044.2
37.5°	3074.8	2708.9	2189.1	1177.5	1017.5	1024.9	995.3	947.9	922.7	907.9	912.4
40°	3353.2	2950.4	2187.6	971.6	916.8	918.3	896.1	838.3	776.1	739.1	748.0
42.5°	3621.3	3169.6	2149.1	862.0	835.3	830.9	813.1	734.6	682.8	653.2	654.6
45°	3836.1	3396.2	2089.8	796.8	761.3	768.7	728.7	681.3	633.9	607.3	605.8
47.5°	4050.8	3568.0	1995.0	756.8	706.5	693.2	676.9	644.3	608.7	579.1	580.6
50°	4246.3	3714.6	1906.2	730.2	656.1	622.1	625.0	605.8	574.7	548.0	546.5
52.5°	4384.1	3810.9	1857.3	715.4	595.4	558.4	568.7	558.4	528.8	509.5	508.0
55°	4521.8	3884.9	1873.6	696.1	528.8	499.1	516.9	513.9	497.6	491.7	493.2
57.5°	4632.9	3941.2	1931.4	660.6	465.1	447.3	476.9	468.0	456.2	457.7	457.7
60°	4741.0	4013.8	1999.5	579.1	410.3	411.7	439.9	423.6	416.2	429.5	431.0
62.5°	4853.6	4092.3	1943.2	460.6	362.9	373.2	405.8	392.5	395.5	414.7	420.6
65°	4840.2	4084.9	1583.3	377.7	321.4	342.1	391.0	386.6	388.0	395.5	398.4
67.5°	4567.7	3824.2	1088.6	321.4	291.8	317.0	379.2	361.4	362.9	358.4	359.9
68°	4475.9	3732.4	959.8	312.5	285.9	311.0	373.2	356.9	358.4	354.0	352.5
70°	3975.3	3196.2	607.3	275.5	265.1	294.7	343.6	337.7	336.2	333.2	333.2
72.5°	3030.3	2359.4	319.9	238.5	241.4	269.6	306.6	318.4	311.0	312.5	321.4
75°	2006.9	1418.9	222.2	204.4	211.8	231.1	272.5	296.2	288.8	293.3	288.8
77.5°	1061.9	764.2	177.7	173.3	173.3	186.6	225.1	262.2	262.2	259.2	254.7
80°	348.1	269.6	142.2	136.3	139.2	146.6	180.7	214.8	219.2	213.3	210.3
82.5°	117.0	124.4	106.6	99.2	102.2	108.1	136.3	164.4	165.9	154.0	151.1
85°	72.6	82.9	66.6	65.2	65.2	66.6	82.9	90.3	82.9	74.1	77.0
87.5°	34.1	41.5	31.1	26.7	22.2	19.3	14.8	5.9	5.9	3.0	3.0
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)