

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: P1211064

Luminaire Tested: **ARCH4-160-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-160-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1305mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17439 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 160.7
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



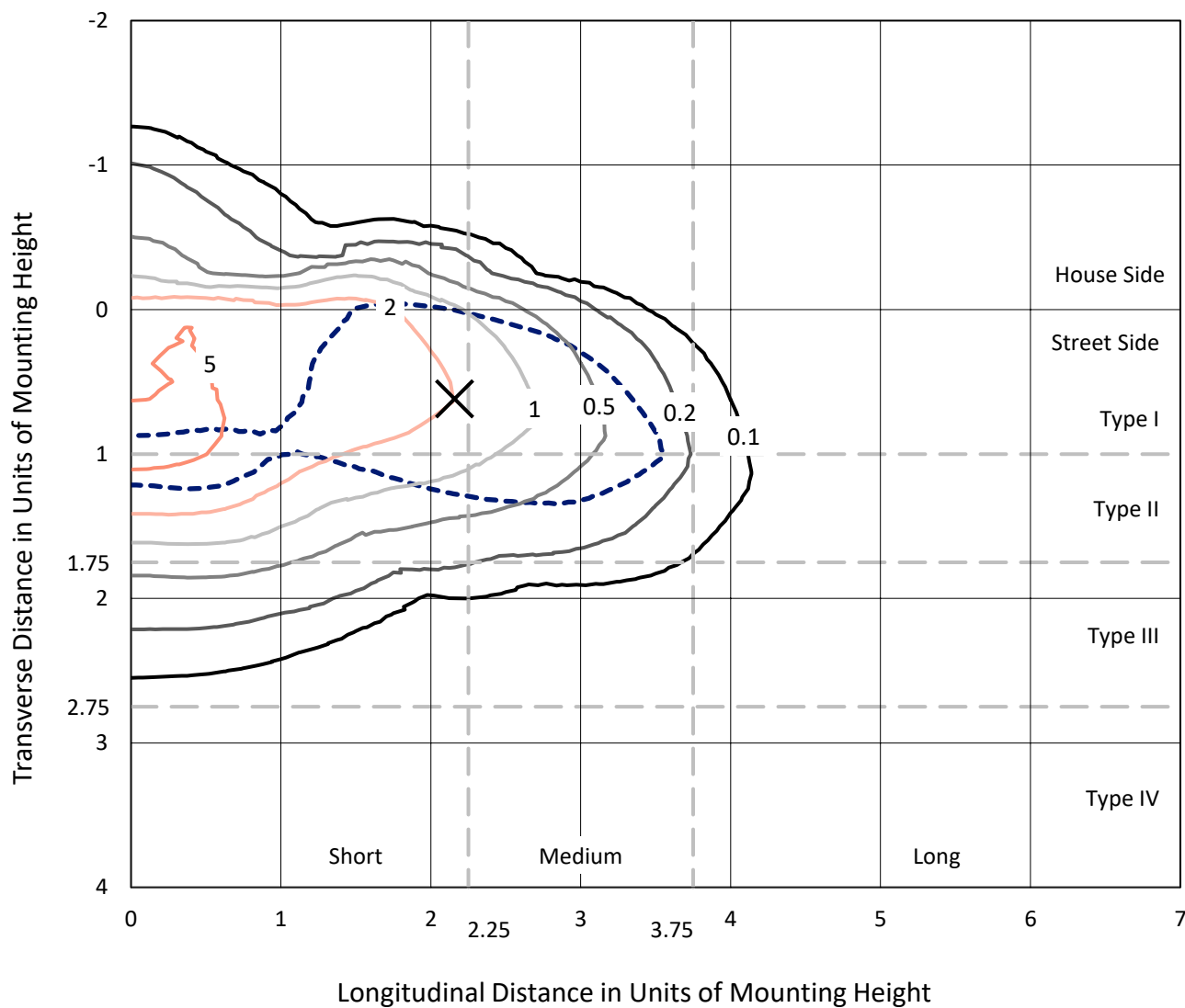
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

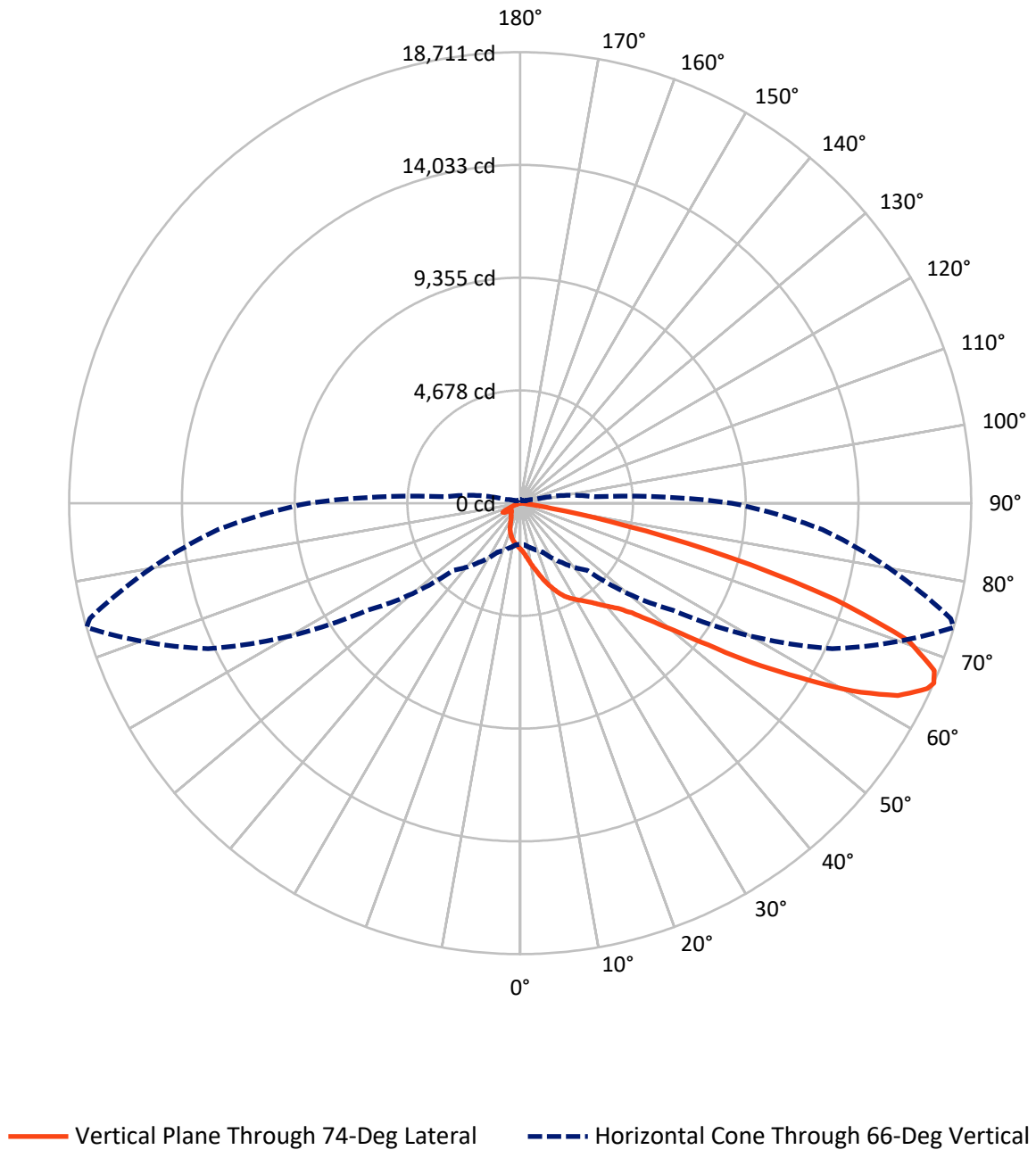
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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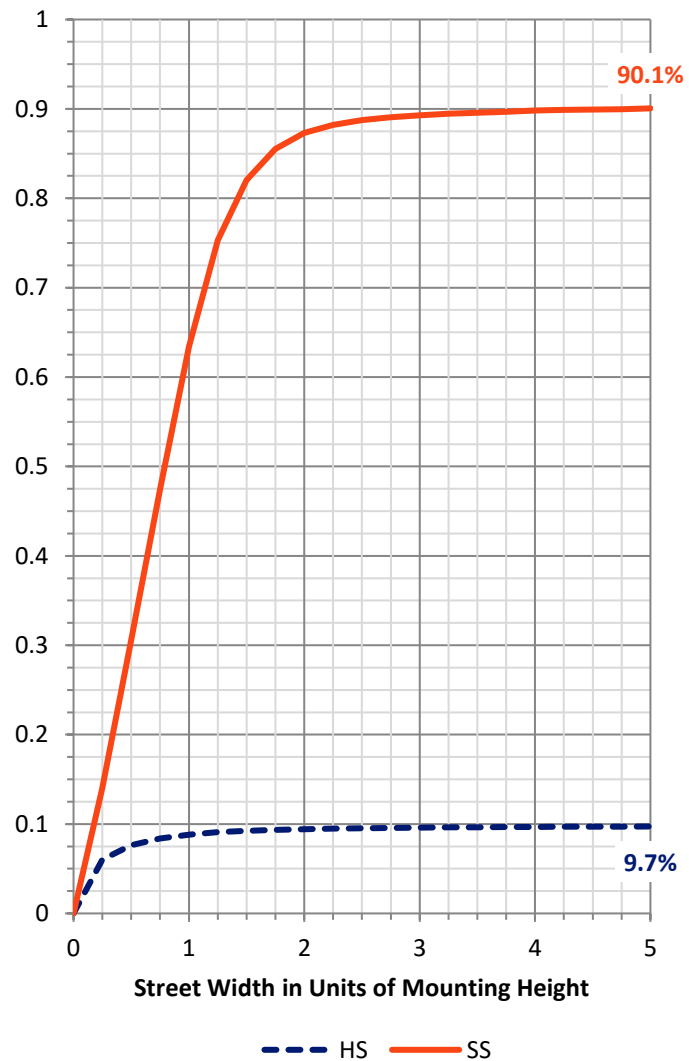
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1709.6	0.0	1709.6
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	15729.4	0.0	15729.4
	% Fixture	90.2	0.0	90.2
Total	Lumens	17439.0	0.0	17439.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.8	1.1
10°-20°	595.7	3.4
20°-30°	1136.8	6.5
30°-40°	1992.5	11.4
40°-50°	3416.6	19.6
50°-60°	4443.6	25.5
60°-70°	4022.5	23.1
70°-80°	1552.1	8.9
80°-90°	93.4	0.5
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°	17439.0	100.0
0°-180°	17439.0	100.0

Coefficient of Utilization



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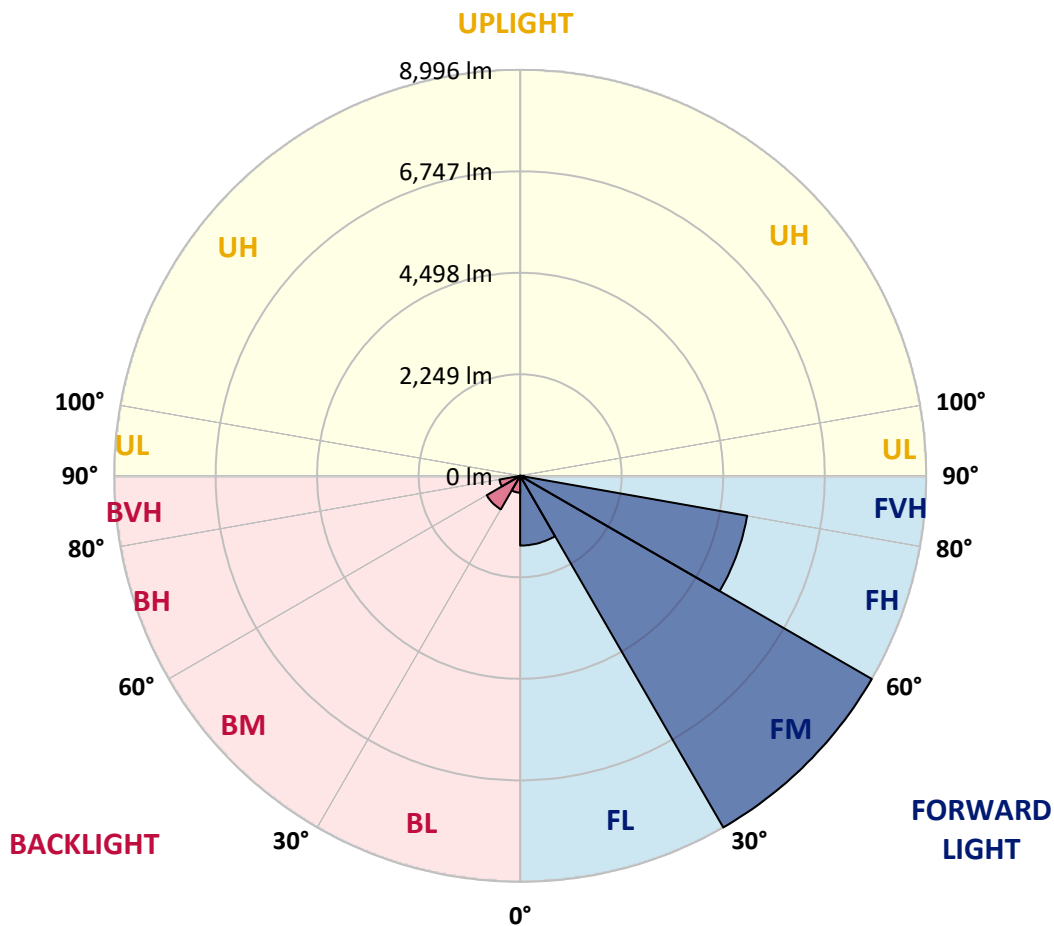
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1545.4	8.9			
FM	(30°-60°)	8995.9	51.6			
FH	(60°-80°)	5107.3	29.3			G3/7500
FVH	(80°-90°)	80.9	0.5			G1/100
BL	(0°-30°)	372.9	2.1	B1/500		
BM	(30°-60°)	856.8	4.9	B1/1000		
BH	(60°-80°)	467.4	2.7	B1/500		G1/500
BVH	(80°-90°)	12.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6
2.5°	2285.6	2266.8	2232.4	2229.2	2201.1	2166.6	2107.1	2044.5	2000.7	1994.4	1941.2
5°	2736.5	2727.1	2692.6	2670.7	2617.5	2536.1	2398.3	2260.5	2144.7	2132.2	2013.2
7.5°	2855.4	2861.7	2868.0	2889.9	2871.1	2833.5	2730.2	2536.1	2354.5	2326.3	2119.7
10°	2874.2	2868.0	2868.0	2896.1	2949.4	3002.6	2990.1	2824.1	2589.3	2554.9	2266.8
12.5°	3077.7	3087.1	3065.2	3052.7	3043.3	3071.5	3165.4	3093.4	2836.6	2808.5	2445.3
15°	3340.7	3337.6	3306.3	3306.3	3278.1	3231.1	3290.6	3343.9	3134.1	3099.6	2648.8
17.5°	3531.7	3544.2	3541.1	3559.9	3550.5	3487.9	3456.6	3566.2	3440.9	3397.1	2880.5
20°	3685.1	3719.6	3732.1	3791.6	3819.8	3775.9	3694.5	3763.4	3735.2	3694.5	3115.3
22.5°	3847.9	3876.1	3898.0	4001.4	4079.6	4070.2	3966.9	3951.3	4020.1	3982.6	3347.0
25°	4010.7	4023.3	4089.0	4214.3	4339.5	4370.8	4264.4	4142.2	4276.9	4242.4	3553.6
27.5°	4189.2	4195.5	4273.7	4427.2	4602.5	4668.2	4583.7	4358.3	4474.1	4474.1	3741.5
30°	4514.8	4577.4	4608.8	4746.5	4899.9	4990.7	4890.5	4586.8	4649.5	4677.6	3938.7
32.5°	5216.2	5225.6	5216.2	5275.7	5307.0	5360.2	5244.3	4843.6	4827.9	4859.2	4132.9
35°	6286.9	6249.4	6149.2	6061.5	5879.9	5779.7	5629.4	5172.3	5047.1	5090.9	4323.8
37.5°	7586.3	7533.1	7304.5	7035.2	6647.0	6246.2	6058.4	5573.1	5325.7	5382.1	4530.5
40°	8826.1	8791.7	8519.3	8187.4	7523.7	6838.0	6440.4	5911.2	5635.7	5657.6	4740.3
42.5°	9846.8	9840.6	9612.0	9264.5	8412.9	7476.7	6891.2	6243.1	5961.3	5995.8	4959.4
45°	10620.2	10560.7	10391.6	10141.1	9273.9	8140.5	7436.0	6747.2	6484.2	6524.9	5288.2
47.5°	10620.2	10629.6	10739.2	10714.1	9875.0	8763.5	8030.9	7382.8	7257.5	7295.1	5829.8
50°	9756.0	9843.7	10332.1	10742.3	10188.1	9248.8	8672.7	8178.0	8306.4	8362.8	6775.4
52.5°	8046.5	8193.7	9042.2	9978.3	9956.4	9493.0	9336.5	9189.3	9765.4	9865.6	8171.8
55°	6114.7	6211.8	7317.0	8547.5	8948.3	9292.7	9915.7	10473.0	11697.2	11675.3	9590.1
57.5°	4568.1	4658.9	5610.7	6975.8	7504.9	8425.4	10213.2	11941.4	13613.4	13697.9	10920.8
60°	3359.5	3428.4	4239.3	5360.2	6124.1	7097.9	10094.2	13387.9	15820.7	15723.6	12094.9
62.5°	2486.0	2523.5	3109.0	3838.5	4853.0	5782.9	9345.9	14377.3	17583.4	17386.2	12749.2
65°	1922.4	1934.9	2238.6	2626.9	3528.6	4496.0	8231.3	14527.6	18557.1	18347.4	12736.7
66°	1712.6	1722.0	1944.3	2244.9	3002.6	3935.6	7742.8	14286.5	18710.6	18488.3	12580.2
67.5°	1437.1	1430.8	1562.3	1759.6	2254.3	3037.0	6875.6	13582.1	18529.0	18416.2	12079.2
70°	1064.5	1067.7	1133.4	1180.4	1318.1	1681.3	4965.7	11781.8	17076.2	17069.9	10704.7
72.5°	789.0	798.4	848.5	857.9	823.4	911.1	2861.7	9370.9	13660.3	13663.5	8002.7
75°	591.7	607.4	623.1	629.3	598.0	576.1	1293.1	6305.7	8985.8	8920.1	4530.5
77.5°	450.9	457.1	469.6	460.2	454.0	397.6	538.5	3074.6	4436.6	4042.1	1468.4
80°	328.7	328.7	341.3	328.7	325.6	284.9	294.3	986.2	1302.5	1083.3	316.2
82.5°	206.6	203.5	212.9	209.8	203.5	181.6	172.2	275.5	300.6	269.3	153.4
85°	115.8	112.7	109.6	106.5	97.1	81.4	93.9	103.3	137.8	140.9	109.6
87.5°	40.7	40.7	37.6	34.4	28.2	28.2	34.4	34.4	50.1	50.1	56.4
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°	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6	1903.6
2.5°	1916.1	1881.7	1831.6	1765.9	1718.9	1671.9	1621.8	1593.7	1553.0	1543.6	1556.1
5°	1950.6	1888.0	1762.7	1625.0	1506.0	1399.5	1299.3	1239.9	1180.4	1158.5	1167.8
7.5°	2022.6	1916.1	1703.2	1480.9	1283.7	1124.0	1005.0	936.2	882.9	861.0	867.3
10°	2129.0	1966.2	1646.9	1318.1	1064.5	895.5	795.3	751.4	720.1	707.6	710.7
12.5°	2257.4	2038.2	1574.9	1155.3	876.7	729.5	682.5	673.2	666.9	660.6	663.8
15°	2401.4	2100.9	1490.3	995.6	729.5	648.1	632.5	629.3	626.2	626.2	626.2
17.5°	2551.7	2157.2	1396.4	845.4	635.6	598.0	588.6	588.6	588.6	591.7	591.7
20°	2692.6	2201.1	1286.8	710.7	582.4	551.0	544.8	544.8	547.9	551.0	551.0
22.5°	2830.4	2219.8	1158.5	616.8	538.5	510.3	501.0	501.0	501.0	504.1	504.1
25°	2949.4	2219.8	1030.1	557.3	501.0	472.8	460.2	457.1	460.2	460.2	460.2
27.5°	3049.5	2210.5	904.8	516.6	463.4	435.2	422.7	419.5	425.8	428.9	428.9
30°	3156.0	2197.9	804.7	479.0	432.1	403.9	391.4	391.4	400.8	413.3	413.3
32.5°	3259.3	2207.3	726.4	447.7	400.8	378.8	366.3	369.5	388.2	407.0	407.0
35°	3368.9	2226.1	679.4	425.8	378.8	356.9	347.5	356.9	375.7	394.5	394.5
37.5°	3478.5	2248.0	651.2	407.0	360.1	338.1	331.9	344.4	366.3	385.1	388.2
40°	3594.3	2266.8	619.9	388.2	347.5	322.5	319.4	331.9	360.1	378.8	382.0
42.5°	3738.4	2304.4	582.4	372.6	335.0	303.7	306.8	316.2	344.4	372.6	375.7
45°	4020.1	2423.4	544.8	356.9	319.4	294.3	288.0	294.3	325.6	356.9	363.2
47.5°	4549.3	2692.6	504.1	341.3	303.7	288.0	263.0	269.3	297.4	331.9	335.0
50°	5563.7	3265.6	482.2	325.6	291.2	266.1	238.0	238.0	259.9	291.2	291.2
52.5°	7144.8	4292.5	494.7	313.1	275.5	244.2	216.0	212.9	225.4	247.3	247.3
55°	8851.2	5419.7	541.7	300.6	256.7	231.7	200.4	184.7	194.1	206.6	206.6
57.5°	10203.8	5986.4	670.0	294.3	234.8	222.3	181.6	159.7	169.1	181.6	181.6
60°	10798.6	5654.5	814.0	300.6	219.2	206.6	162.8	140.9	156.5	169.1	172.2
62.5°	10316.5	4655.7	873.5	284.9	197.2	184.7	159.7	131.5	150.3	159.7	162.8
65°	9273.9	3538.0	682.5	247.3	181.6	159.7	144.0	125.2	140.9	150.3	150.3
66°	8779.2	3084.0	582.4	228.6	175.3	150.3	137.8	125.2	137.8	144.0	147.2
67.5°	8012.1	2432.7	432.1	200.4	162.8	137.8	128.4	119.0	131.5	137.8	137.8
70°	6265.0	1449.6	259.9	156.5	140.9	122.1	115.8	109.6	119.0	122.1	122.1
72.5°	3923.1	688.8	165.9	115.8	119.0	115.8	97.1	103.3	106.5	109.6	109.6
75°	1900.5	272.4	112.7	84.5	97.1	109.6	78.3	90.8	93.9	100.2	97.1
77.5°	529.1	131.5	72.0	62.6	84.5	84.5	59.5	72.0	84.5	106.5	97.1
80°	153.4	84.5	47.0	47.0	59.5	59.5	40.7	50.1	56.4	62.6	65.7
82.5°	106.5	56.4	31.3	34.4	34.4	37.6	25.0	25.0	31.3	31.3	34.4
85°	84.5	25.0	18.8	21.9	15.7	18.8	12.5	12.5	15.7	12.5	12.5
87.5°	34.4	12.5	12.5	12.5	9.4	9.4	6.3	3.1	3.1	3.1	3.1
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)