

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: P1211226

Luminaire Tested: **ARCH4-210-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211226
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-210-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21491 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 213.1
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



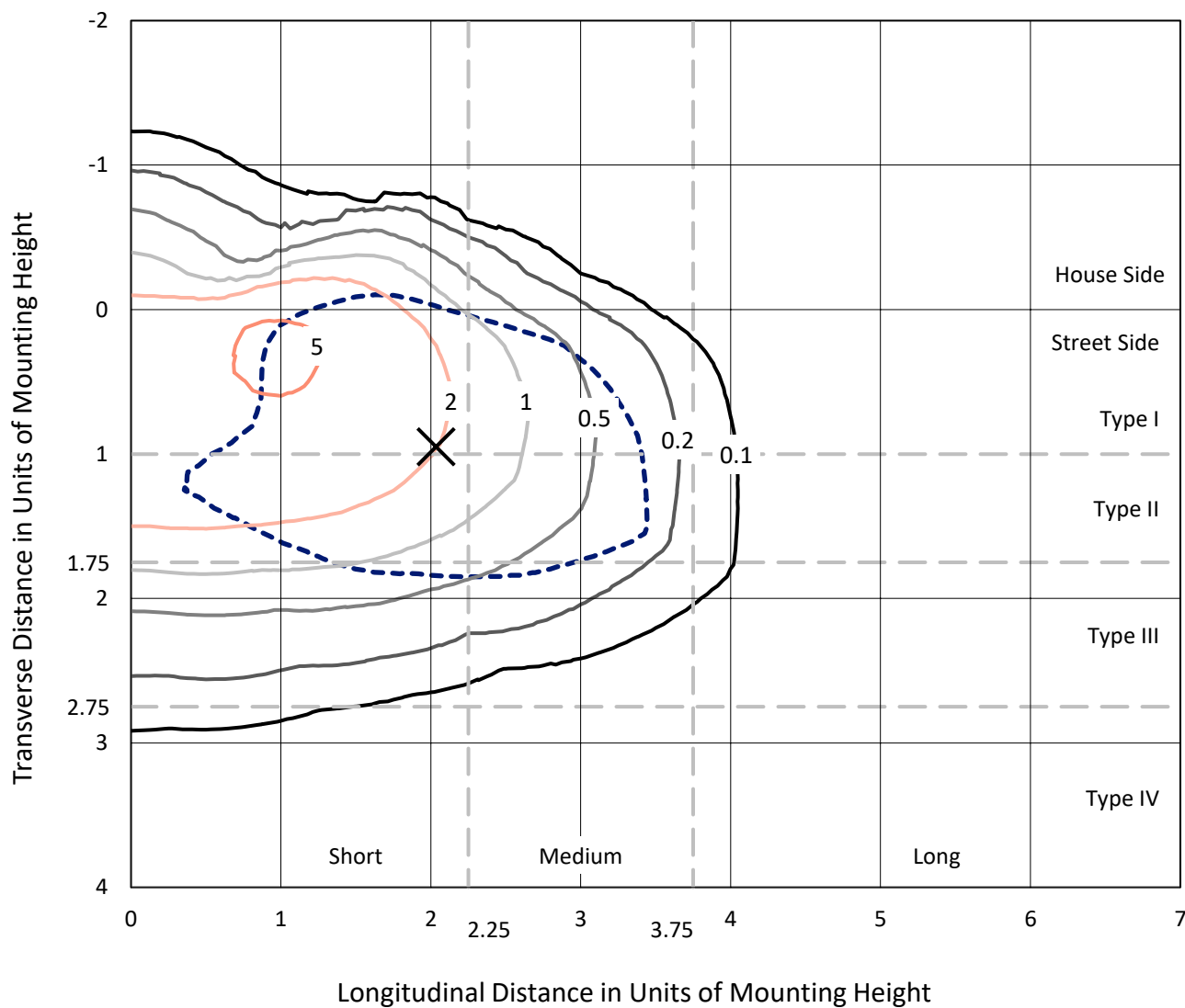
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Iso-Footcandle Lines of Horizontal Illumination

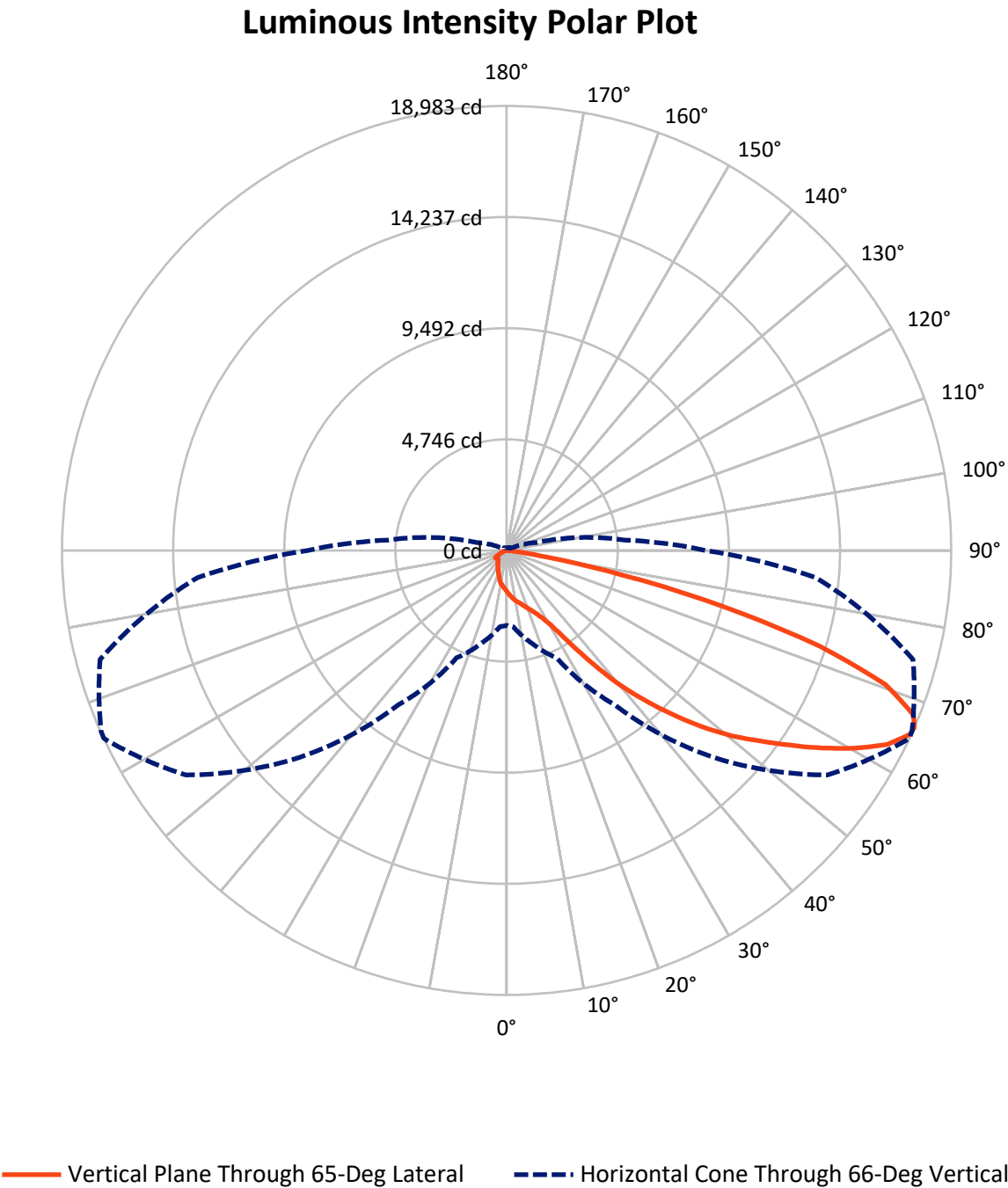
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type III - Short - N/A

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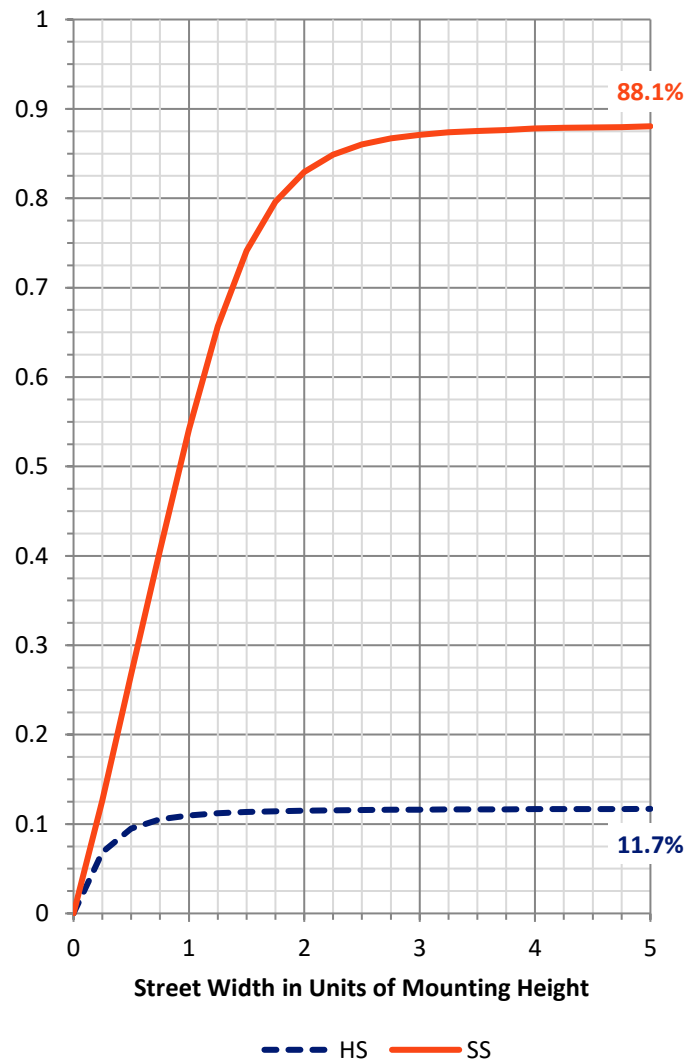
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2536.4	0.0	2536.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	18954.6	0.0	18954.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	21491.0	0.0	21491.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.0	0.8
10°-20°	491.4	2.3
20°-30°	899.4	4.2
30°-40°	1827.5	8.5
40°-50°	3859.2	18.0
50°-60°	5932.8	27.6
60°-70°	5971.8	27.8
70°-80°	2231.4	10.4
80°-90°	111.5	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°	21491.0	100.0
0°-180°	21491.0	100.0

Coefficient of Utilization



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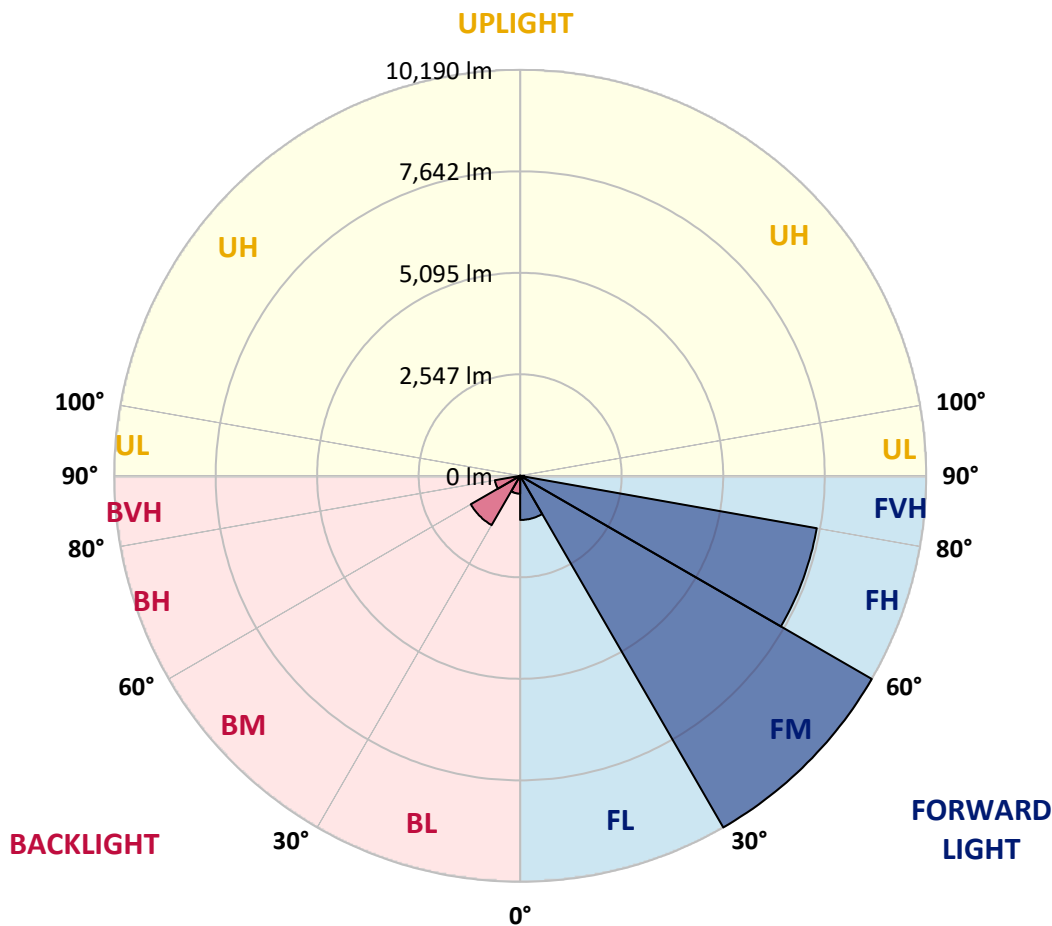
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1107.8	5.2			
FM	(30°-60°)	10189.5	47.4			
FH	(60°-80°)	7558.9	35.2			G4/12000
FVH	(80°-90°)	98.4	0.5			G1/100
BL	(0°-30°)	448.9	2.1	B1/500		
BM	(30°-60°)	1430.0	6.7	B2/2500		
BH	(60°-80°)	644.3	3.0	B2/1000		G2/1000
BVH	(80°-90°)	13.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9
2.5°	1996.6	2000.5	1992.7	1977.1	1961.5	1942.0	1910.8	1860.1	1852.3	1817.2	1778.2
5°	2133.1	2140.9	2129.2	2125.3	2117.5	2090.2	2047.3	1973.2	1965.4	1895.2	1805.5
7.5°	2179.9	2191.6	2183.8	2183.8	2183.8	2172.1	2152.6	2086.3	2074.6	1984.9	1848.4
10°	2215.0	2222.8	2218.9	2234.5	2246.2	2238.4	2226.7	2187.7	2176.0	2086.3	1906.9
12.5°	2269.6	2273.5	2277.4	2285.2	2304.7	2312.5	2308.6	2273.5	2265.7	2203.3	1981.0
15°	2320.3	2320.3	2324.2	2359.2	2386.5	2402.1	2406.0	2378.7	2370.9	2320.3	2074.6
17.5°	2367.0	2370.9	2382.6	2421.6	2468.4	2499.6	2519.1	2507.4	2495.7	2456.7	2183.8
20°	2437.2	2445.0	2456.7	2511.3	2558.1	2608.8	2647.8	2643.9	2640.0	2612.7	2312.5
22.5°	2558.1	2565.9	2585.4	2636.1	2682.9	2745.3	2811.6	2807.7	2796.0	2776.5	2464.5
25°	2741.4	2741.4	2753.1	2796.0	2854.5	2928.6	2991.0	3002.7	2991.0	2979.3	2655.6
27.5°	2971.5	2975.4	2975.4	3022.2	3076.8	3170.4	3248.4	3260.0	3260.0	3248.4	2913.0
30°	3291.2	3279.5	3271.7	3310.7	3369.2	3505.7	3642.2	3665.6	3653.9	3673.4	3275.6
32.5°	3841.1	3821.6	3755.3	3763.1	3798.2	3985.4	4215.4	4297.3	4293.4	4328.5	3860.6
35°	4601.5	4562.5	4465.0	4383.1	4379.2	4582.0	4933.0	5241.0	5237.1	5358.0	4749.7
37.5°	5459.4	5510.1	5326.8	5186.4	5143.5	5303.4	5755.8	6422.6	6457.7	6668.3	5915.7
40°	6605.9	6637.1	6403.1	6204.2	6001.5	6059.9	6656.6	7693.9	7756.3	7990.2	7081.6
42.5°	7604.2	7635.4	7498.9	7257.1	6999.7	6890.6	7565.2	8848.1	8898.8	9222.5	8282.7
45°	8282.7	8306.1	8352.9	8376.3	8083.8	7857.7	8676.6	10033.6	10096.0	10470.4	9456.5
47.5°	8813.1	8832.6	8926.1	9160.1	9101.6	8922.2	9807.4	11265.9	11281.5	11698.7	10599.1
50°	9058.7	9105.5	9335.6	9694.4	9951.7	10002.4	11035.8	12431.9	12474.8	12872.5	11679.2
52.5°	8785.8	8801.4	9382.4	10057.0	10575.7	11090.4	12268.1	13512.0	13636.8	13933.2	12650.2
55°	7865.5	7978.5	8859.8	10045.3	11067.0	12123.8	13586.1	14678.0	14791.1	14978.3	13504.2
57.5°	6797.0	6921.8	7994.1	9542.3	11277.6	13079.2	14806.7	15918.1	15996.1	16046.8	14288.1
60°	5872.8	5989.8	7093.3	8579.1	11067.0	13753.8	15941.5	17150.4	17216.6	17080.2	14681.9
62.5°	4738.0	4855.0	5966.4	7303.9	10240.3	13890.3	16783.8	18246.1	18273.4	17903.0	14440.1
65°	3572.0	3650.0	4578.1	5724.6	8793.6	13165.0	16974.9	18928.6	18901.3	18140.9	13714.8
66°	3201.6	3267.8	4086.8	5061.7	8040.9	12502.1	16717.5	18983.2	18955.9	17965.4	13239.1
67.5°	2760.9	2780.4	3455.0	4141.4	6726.8	11094.3	15933.7	18733.6	18757.0	17481.8	12369.5
70°	2156.5	2152.6	2542.5	2881.8	4593.7	7892.8	13289.8	17162.1	17275.1	15656.8	10548.4
72.5°	1380.5	1333.7	1559.8	1762.6	2675.1	4582.0	9690.5	13987.8	14178.9	12299.3	7857.7
75°	822.8	776.0	830.6	881.3	1283.0	2203.3	5697.3	9518.9	9702.2	7885.0	4675.6
77.5°	616.1	596.6	600.5	557.6	569.3	826.7	2601.0	5030.5	5163.0	3228.9	1774.3
80°	471.8	421.2	393.9	413.4	374.4	327.6	967.1	1731.4	1813.3	764.3	370.5
82.5°	315.9	273.0	253.5	276.9	237.9	183.3	234.0	335.4	327.6	206.7	144.3
85°	163.8	140.4	140.4	140.4	120.9	89.7	101.4	136.5	136.5	109.2	85.8
87.5°	46.8	42.9	50.7	46.8	35.1	35.1	39.0	46.8	46.8	42.9	39.0
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°	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9
2.5°	1747.0	1731.4	1688.5	1657.3	1626.1	1598.8	1567.6	1559.8	1544.2	1548.1	1540.3
5°	1758.7	1715.8	1641.7	1571.5	1516.9	1470.1	1411.6	1388.3	1357.1	1345.4	1337.6
7.5°	1774.3	1711.9	1602.7	1505.2	1411.6	1318.1	1224.5	1169.9	1134.8	1119.2	1107.5
10°	1809.4	1727.5	1583.2	1431.1	1271.3	1138.7	1045.1	1006.1	982.7	978.8	974.9
12.5°	1856.2	1750.9	1563.7	1337.6	1127.0	1002.2	943.7	932.0	928.1	928.1	924.2
15°	1926.4	1789.9	1532.5	1228.4	1013.9	928.1	900.8	881.3	873.5	873.5	873.5
17.5°	1996.6	1836.7	1485.7	1115.3	935.9	881.3	854.0	842.3	834.5	838.4	834.5
20°	2086.3	1891.3	1423.3	1017.8	885.2	842.3	815.0	803.3	799.4	799.4	799.4
22.5°	2187.7	1953.7	1345.4	943.7	842.3	803.3	776.0	764.3	756.5	760.4	760.4
25°	2324.2	2031.7	1263.5	869.6	799.4	764.3	733.1	717.5	717.5	721.4	725.3
27.5°	2499.6	2125.3	1181.6	822.8	760.4	725.3	690.2	674.6	678.5	686.3	686.3
30°	2757.0	2254.0	1099.7	772.1	717.5	678.5	647.3	631.7	639.5	655.1	655.1
32.5°	3123.6	2464.5	1029.5	713.6	655.1	612.2	581.0	569.3	588.8	620.0	620.0
35°	3778.7	2850.6	986.6	655.1	588.8	538.1	499.1	487.4	514.7	553.7	553.7
37.5°	4656.1	3470.6	1002.2	604.4	534.2	475.7	432.9	417.3	436.8	471.8	483.5
40°	5634.9	4219.3	1138.7	561.5	483.5	425.1	382.2	366.6	378.3	393.9	397.8
42.5°	6613.7	5014.9	1396.0	530.3	444.6	382.2	343.2	331.5	339.3	343.2	347.1
45°	7588.6	5802.6	1719.7	510.8	409.5	347.1	308.1	308.1	312.0	312.0	312.0
47.5°	8512.8	6570.8	2059.0	506.9	378.3	312.0	280.8	284.7	284.7	288.6	288.6
50°	9386.3	7257.1	2402.1	518.6	351.0	280.8	257.4	257.4	257.4	261.3	257.4
52.5°	10115.5	7857.7	2760.9	538.1	323.7	257.4	234.0	234.0	234.0	237.9	234.0
55°	10805.7	8403.6	3127.5	565.4	300.3	237.9	214.5	206.7	206.7	210.6	206.7
57.5°	11367.3	8766.3	3474.5	569.3	280.8	218.4	198.9	187.2	187.2	187.2	187.2
60°	11390.7	8555.7	3575.9	499.1	257.4	198.9	179.4	163.8	167.7	167.7	167.7
62.5°	10645.9	7448.2	2874.0	374.4	230.1	179.4	163.8	148.2	148.2	148.2	148.2
65°	9183.5	5794.8	1684.6	296.4	198.9	159.9	144.3	132.6	132.6	132.6	128.7
66°	8497.2	5081.2	1290.8	269.1	187.2	156.0	140.4	128.7	124.8	120.9	120.9
67.5°	7378.0	4016.6	807.2	237.9	171.6	144.3	128.7	117.0	113.1	109.2	109.2
70°	5556.9	2550.3	393.9	183.3	148.2	124.8	113.1	101.4	97.5	93.6	89.7
72.5°	3899.6	1493.5	206.7	140.4	120.9	109.2	97.5	85.8	81.9	78.0	78.0
75°	2203.3	721.4	136.5	101.4	97.5	89.7	81.9	70.2	66.3	66.3	66.3
77.5°	834.5	249.6	93.6	74.1	78.0	70.2	58.5	58.5	54.6	58.5	54.6
80°	218.4	109.2	58.5	54.6	58.5	50.7	42.9	46.8	46.8	46.8	46.8
82.5°	117.0	62.4	35.1	39.0	35.1	35.1	27.3	31.2	35.1	31.2	35.1
85°	81.9	31.2	19.5	19.5	15.6	15.6	11.7	15.6	19.5	15.6	15.6
87.5°	42.9	11.7	11.7	11.7	11.7	7.8	3.9	0.0	3.9	3.9	3.9
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)