

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: P1211065

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

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211065
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
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
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1305mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24331 lumens
Efficiency: N/A
Efficacy: 151.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

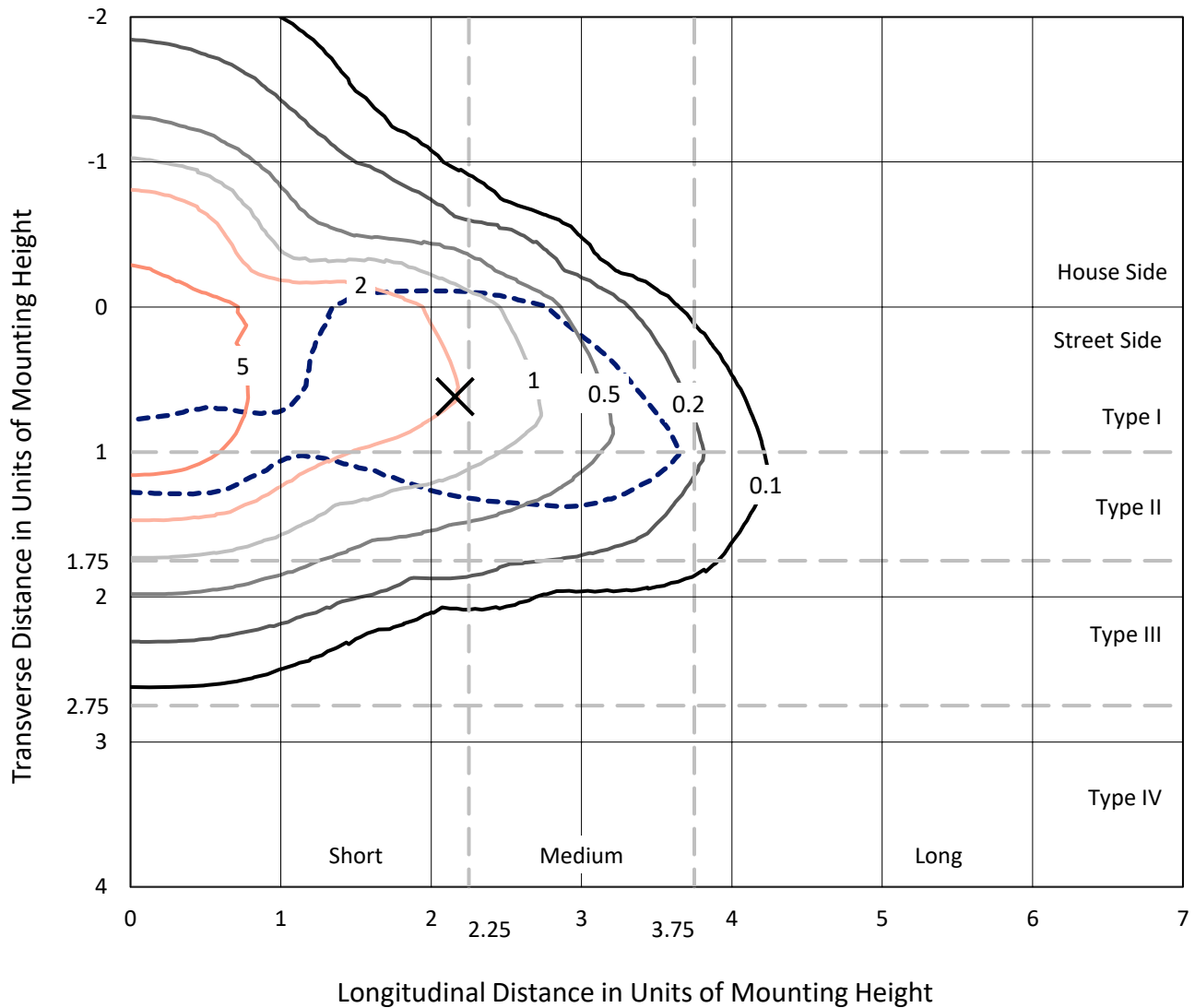
Input Watts (W): 160.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

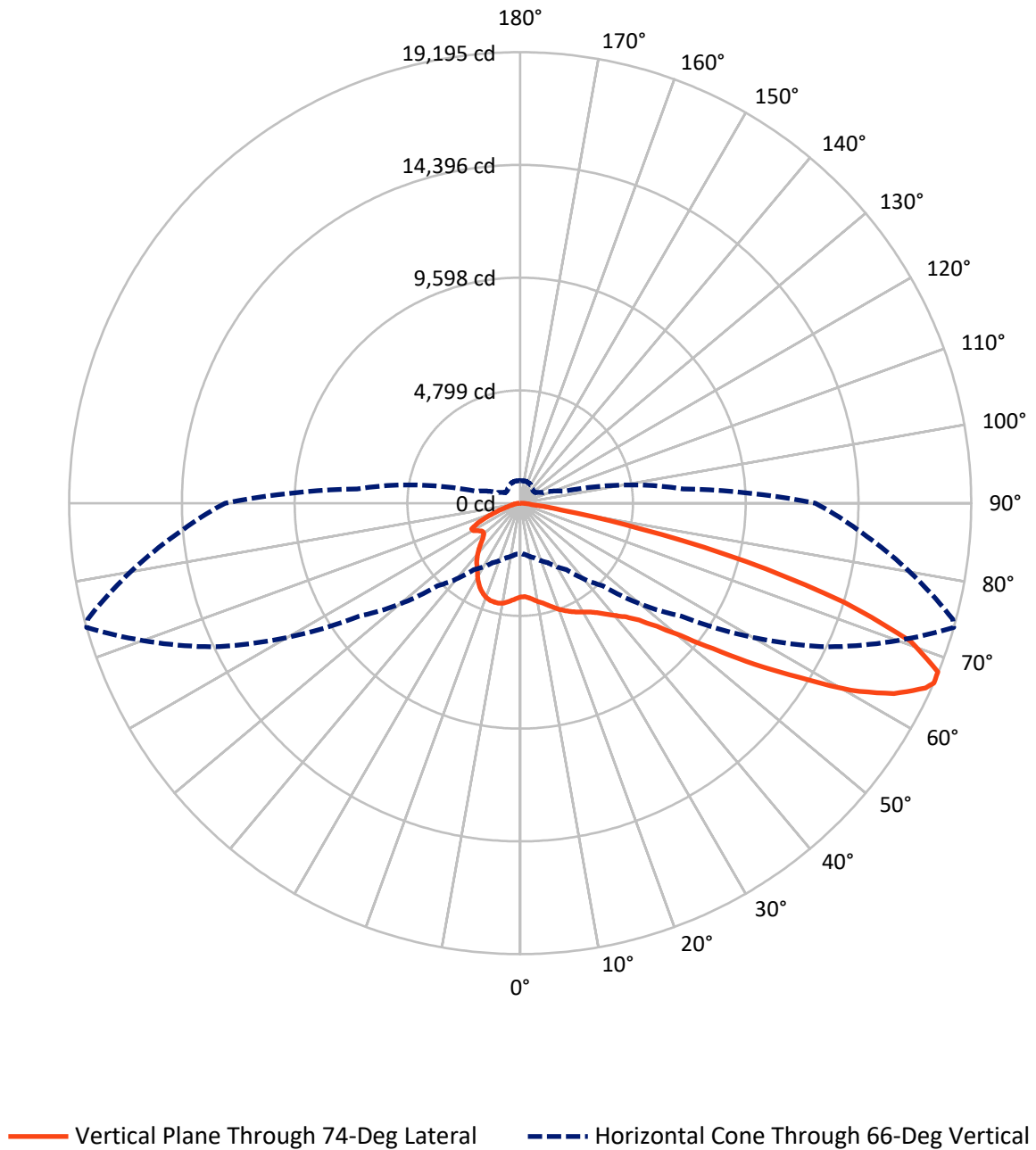
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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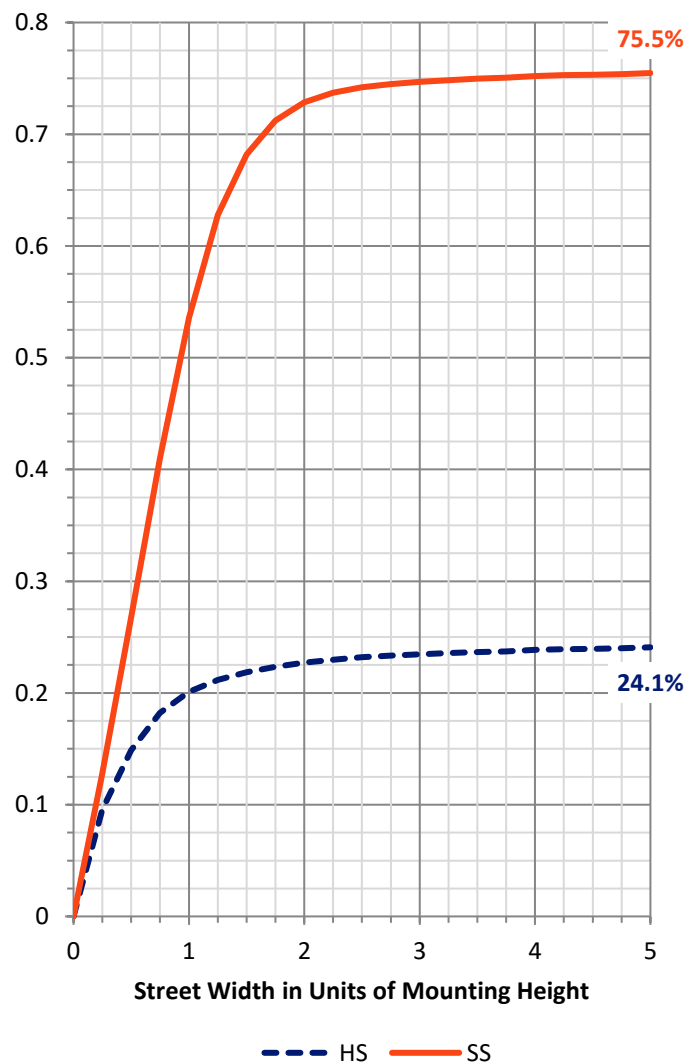
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5925.3	0.0	5925.3
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	18405.7	0.0	18405.7
	% Fixture	75.6	0.0	75.6
Total	Lumens	24331.0	0.0	24331.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.5	1.6
10°-20°	1170.1	4.8
20°-30°	2195.6	9.0
30°-40°	3377.4	13.9
40°-50°	4542.9	18.7
50°-60°	5372.5	22.1
60°-70°	4969.9	20.4
70°-80°	2090.8	8.6
80°-90°	231.4	1.0
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°	24331.0	100.0
0°-180°	24331.0	100.0

Coefficient of Utilization



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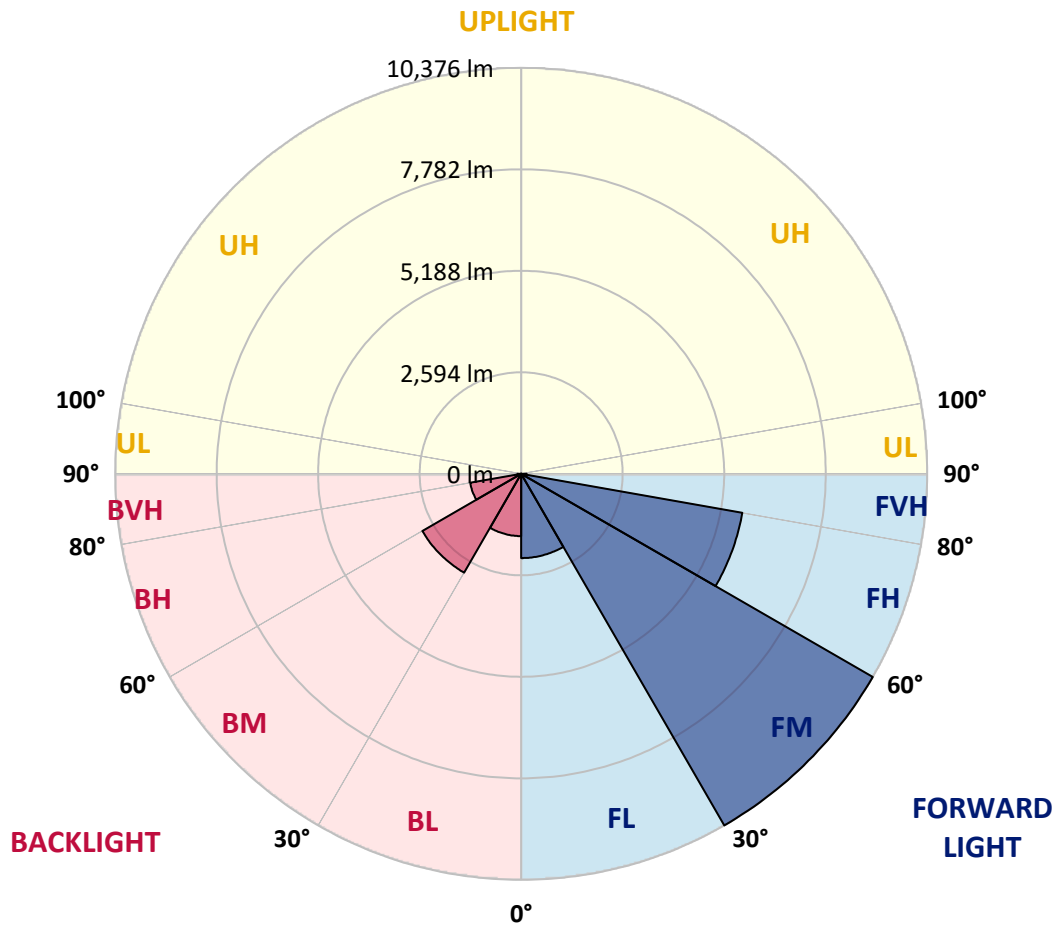
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2153.6	8.9			
FM	(30°-60°)	10375.8	42.6			
FH	(60°-80°)	5737.9	23.6			G3/7500
FVH	(80°-90°)	138.4	0.6			G2/225
BL	(0°-30°)	1592.6	6.5	B3/2500		
BM	(30°-60°)	2917.0	12.0	B3/5000		
BH	(60°-80°)	1322.7	5.4	B3/2500		G3/2500
BVH	(80°-90°)	92.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3988.7	3988.7	3988.7	3988.7	3988.7	3988.7	3988.7	3988.7	3988.7	3988.7	3988.7
2.5°	3976.1	3969.9	3982.4	4001.2	4010.6	3994.9	3988.7	3985.5	3985.5	3976.1	3991.8
5°	3788.3	3785.2	3813.3	3847.8	3913.5	3960.5	4023.1	4060.7	4048.1	4029.4	4041.9
7.5°	3544.1	3537.8	3572.3	3638.0	3728.8	3832.1	3985.5	4104.5	4151.5	4145.2	4142.1
10°	3638.0	3631.7	3628.6	3609.8	3641.1	3741.3	3901.0	4110.8	4270.4	4273.6	4276.7
12.5°	3963.6	3979.3	3963.6	3904.1	3835.2	3797.7	3891.6	4126.4	4370.6	4389.4	4467.7
15°	4408.2	4392.5	4361.2	4292.3	4185.9	4073.2	4004.3	4198.4	4514.6	4530.3	4702.5
17.5°	4799.5	4812.1	4793.3	4727.5	4602.3	4455.2	4245.4	4323.7	4668.0	4711.9	4953.0
20°	5225.3	5275.4	5250.4	5169.0	5065.7	4846.5	4583.5	4505.2	4837.1	4868.4	5212.8
22.5°	5716.9	5770.1	5723.1	5644.9	5560.3	5291.1	4953.0	4727.5	4978.0	5043.7	5463.3
25°	6305.5	6355.6	6311.7	6189.6	6083.2	5754.4	5350.6	4978.0	5115.8	5187.8	5666.8
27.5°	6772.0	6809.5	6850.2	6778.2	6615.4	6274.2	5763.8	5237.9	5253.5	5328.6	5854.6
30°	7188.4	7282.3	7316.7	7326.1	7188.4	6806.4	6186.5	5507.1	5372.5	5450.8	6042.5
32.5°	7758.2	7899.0	7842.7	7899.0	7817.6	7307.3	6624.8	5785.7	5525.9	5597.9	6220.9
35°	8591.0	8703.7	8556.5	8512.7	8381.2	7814.5	7047.5	6073.8	5729.4	5807.7	6390.0
37.5°	9486.4	9614.7	9401.8	9226.5	8976.1	8315.4	7410.6	6452.6	6011.2	6073.8	6546.5
40°	10269.1	10375.5	10190.8	9959.1	9539.6	8756.9	7723.7	6718.7	6292.9	6371.2	6728.1
42.5°	10992.3	11061.2	10854.5	10632.3	10071.8	9154.5	8061.9	7000.5	6621.7	6696.8	6875.3
45°	11724.9	11778.1	11490.1	11173.9	10516.4	9517.7	8434.4	7395.0	7103.8	7204.0	7113.2
47.5°	11856.4	11872.1	11822.0	11609.1	10867.1	9865.2	8894.6	7924.1	7839.6	7949.1	7523.4
50°	10945.3	11086.2	11396.2	11605.9	11007.9	10156.4	9354.9	8681.8	8853.9	8994.8	8374.9
52.5°	9176.4	9311.0	10028.0	10823.2	10669.8	10222.1	9849.5	9642.9	10284.7	10453.8	9533.3
55°	7310.5	7429.4	8187.1	9333.0	9577.2	9921.6	10378.7	10870.2	12110.0	12222.7	10804.4
57.5°	6020.6	6086.3	6627.9	7730.0	8121.3	8960.4	10663.6	12329.2	13966.6	14138.8	11909.6
60°	4937.3	5009.3	5413.2	6321.1	6840.8	7586.0	10438.1	13769.3	16183.2	16183.2	13327.9
62.5°	3716.3	3778.9	4154.6	4865.3	5738.8	6421.3	9718.1	14724.2	17855.0	17779.9	14354.8
65°	2551.6	2601.7	2874.1	3346.8	4132.7	5472.7	8735.0	14736.8	18963.4	18863.2	14793.1
66°	2141.5	2185.3	2417.0	2798.9	3459.6	4965.5	8387.5	14470.6	19195.0	19054.1	14608.4
67.5°	1690.6	1721.9	1875.4	2100.8	2536.0	4020.0	7839.6	13716.1	19173.1	19088.6	14138.8
70°	1208.5	1230.4	1343.1	1390.1	1499.7	2326.2	6227.2	12012.9	17635.9	17660.9	12291.6
72.5°	936.1	970.6	1039.4	1048.8	1023.8	1236.7	3778.9	10021.7	14426.8	14417.4	9123.2
75°	754.5	773.3	807.8	826.5	820.3	798.4	1599.8	7476.4	9930.9	10046.8	5109.5
77.5°	594.9	591.7	623.0	648.1	666.9	626.2	732.6	4383.1	5206.5	5059.4	1919.2
80°	438.3	438.3	482.1	491.5	519.7	526.0	488.4	1690.6	1787.7	1624.9	497.8
82.5°	288.0	288.0	335.0	341.3	369.4	410.1	353.8	507.2	494.7	469.6	225.4
85°	156.5	150.3	165.9	187.8	203.5	241.1	212.9	253.6	259.9	256.7	150.3
87.5°	31.3	28.2	43.8	50.1	56.4	75.1	68.9	103.3	144.0	140.9	65.7
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°	3988.7	3988.7	3988.7	3988.7	3988.7	3988.7	3988.7	3988.7	3988.7	3988.7	3988.7
2.5°	4013.7	4010.6	4045.0	4085.7	4132.7	4160.9	4173.4	4195.3	4179.6	4185.9	4204.7
5°	4073.2	4082.6	4132.7	4185.9	4207.8	4192.2	4157.7	4145.2	4117.0	4110.8	4104.5
7.5°	4160.9	4176.5	4226.6	4239.1	4173.4	4063.8	3985.5	3941.7	3894.7	3882.2	3876.0
10°	4304.9	4314.3	4326.8	4198.4	4035.6	3888.5	3791.4	3750.7	3719.4	3694.4	3700.6
12.5°	4486.5	4480.2	4383.1	4117.0	3885.3	3735.1	3669.3	3644.3	3622.4	3606.7	3603.6
15°	4715.0	4671.2	4392.5	4004.3	3744.5	3619.2	3572.3	3562.9	3537.8	3537.8	3534.7
17.5°	4946.7	4834.0	4386.3	3885.3	3609.8	3541.0	3512.8	3506.5	3500.3	3497.1	3506.5
20°	5178.4	4978.0	4336.2	3738.2	3515.9	3475.2	3468.9	3472.1	3465.8	3475.2	3468.9
22.5°	5381.9	5071.9	4242.3	3581.7	3450.2	3447.0	3431.4	3437.6	3459.6	3462.7	3472.1
25°	5538.4	5106.4	4104.5	3437.6	3403.2	3396.9	3415.7	3440.8	3459.6	3462.7	3478.3
27.5°	5666.8	5087.6	3932.3	3324.9	3321.8	3356.2	3412.6	3422.0	3425.1	3425.1	3412.6
30°	5763.8	5046.9	3713.1	3199.7	3215.3	3299.9	3353.1	3353.1	3328.1	3321.8	3340.6
32.5°	5785.7	4993.7	3475.2	3071.3	3096.4	3196.6	3262.3	3240.4	3212.2	3212.2	3224.7
35°	5804.5	4921.6	3284.2	2896.0	2933.6	3052.5	3115.2	3071.3	3040.0	3030.6	3027.5
37.5°	5798.3	4893.5	3112.0	2673.7	2723.8	2839.7	2880.4	2839.7	2792.7	2770.8	2798.9
40°	5804.5	4874.7	2896.0	2429.5	2479.6	2548.5	2601.7	2570.4	2526.6	2470.2	2498.4
42.5°	5842.1	4899.7	2658.1	2191.6	2191.6	2229.1	2319.9	2298.0	2191.6	2169.7	2194.7
45°	6042.5	5034.4	2420.1	1953.6	1919.2	1944.2	2038.2	1944.2	1878.5	1878.5	1900.4
47.5°	6527.8	5284.8	2210.4	1743.9	1662.5	1712.6	1737.6	1649.9	1599.8	1587.3	1609.2
50°	7517.1	5785.7	2085.1	1571.7	1471.5	1509.1	1493.4	1490.3	1440.2	1446.4	1459.0
52.5°	9019.9	6762.6	2047.6	1487.1	1361.9	1371.3	1355.6	1361.9	1352.5	1383.8	1393.2
55°	10657.3	7792.6	2094.5	1499.7	1286.8	1221.0	1227.3	1258.6	1296.2	1346.3	1355.6
57.5°	11881.4	8309.2	2216.6	1584.2	1192.8	1092.7	1108.3	1167.8	1239.8	1280.5	1302.4
60°	12792.5	8246.6	2395.1	1606.1	1080.1	976.8	1005.0	1092.7	1155.3	1189.7	1211.6
62.5°	13089.9	7855.2	2438.9	1446.4	933.0	867.2	936.1	1026.9	1055.1	1092.7	1108.3
65°	12845.7	7301.1	2119.6	1174.1	820.3	785.8	886.0	954.9	992.5	1011.3	1014.4
66°	12557.7	6969.2	1947.4	1067.6	779.6	760.8	867.2	923.6	961.2	958.0	961.2
67.5°	11925.3	6274.2	1668.7	917.3	720.1	723.2	835.9	873.5	886.0	876.6	876.6
70°	9774.4	4417.6	1196.0	695.0	632.4	676.3	751.4	760.8	789.0	776.4	776.4
72.5°	6026.8	2169.7	801.5	532.2	563.5	632.4	629.3	660.6	726.3	745.1	757.7
75°	2961.8	879.8	529.1	450.8	504.1	529.1	522.8	601.1	695.0	776.4	804.6
77.5°	1124.0	438.3	369.4	394.5	407.0	397.6	416.4	544.8	695.0	842.2	870.4
80°	347.5	303.7	291.2	325.6	306.8	291.2	313.1	450.8	588.6	638.7	638.7
82.5°	209.8	237.9	225.4	222.3	206.6	209.8	225.4	322.5	454.0	475.9	475.9
85°	147.1	156.5	128.4	122.1	119.0	115.8	115.8	187.8	269.3	266.1	275.5
87.5°	56.4	62.6	47.0	47.0	43.8	31.3	25.0	31.3	31.3	21.9	15.7
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)