

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: P1211032

Luminaire Tested: **ARCH4-150-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211032
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: ARCH4-150-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1230mA 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: 16544 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

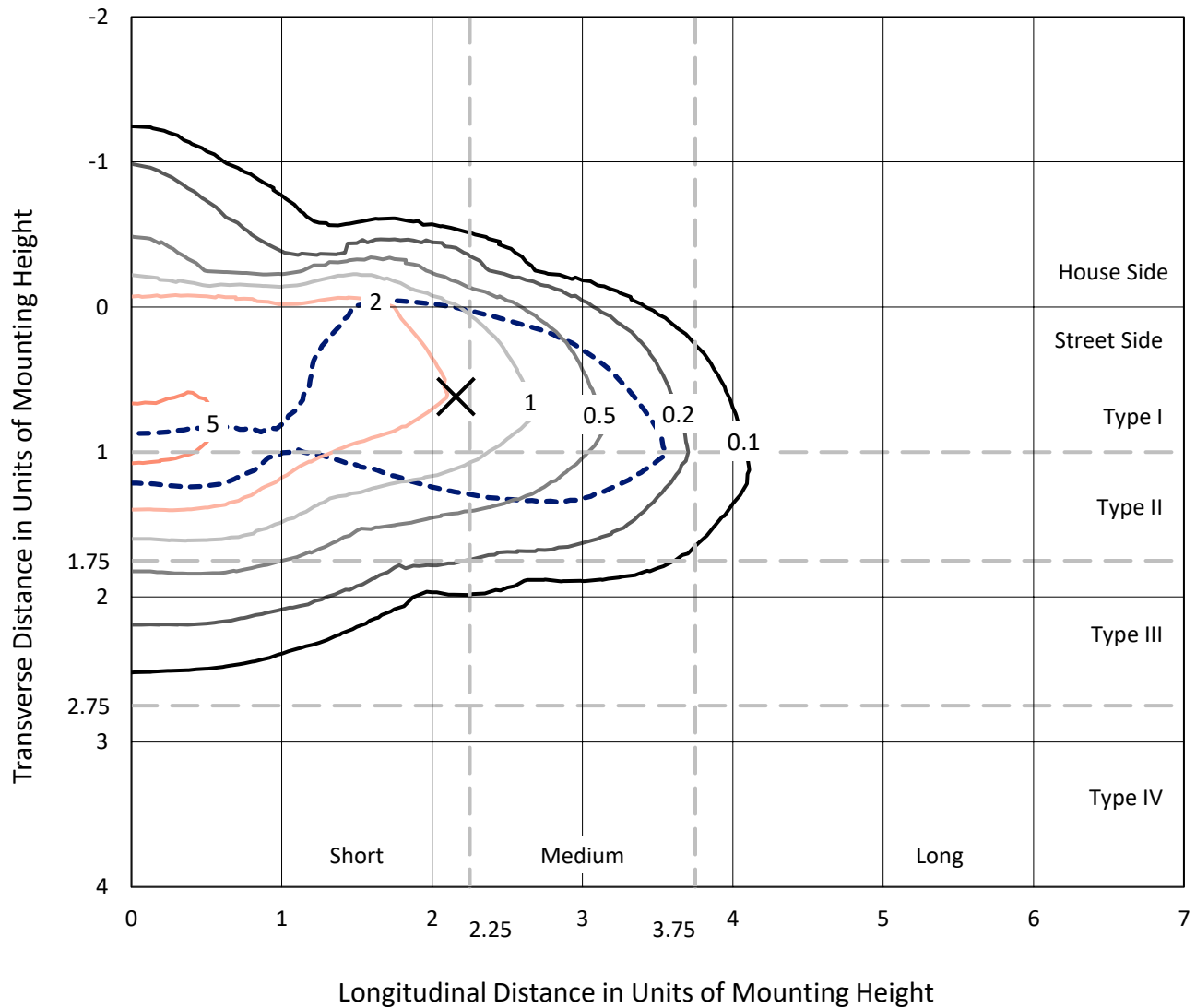
Input Watts (W): 150.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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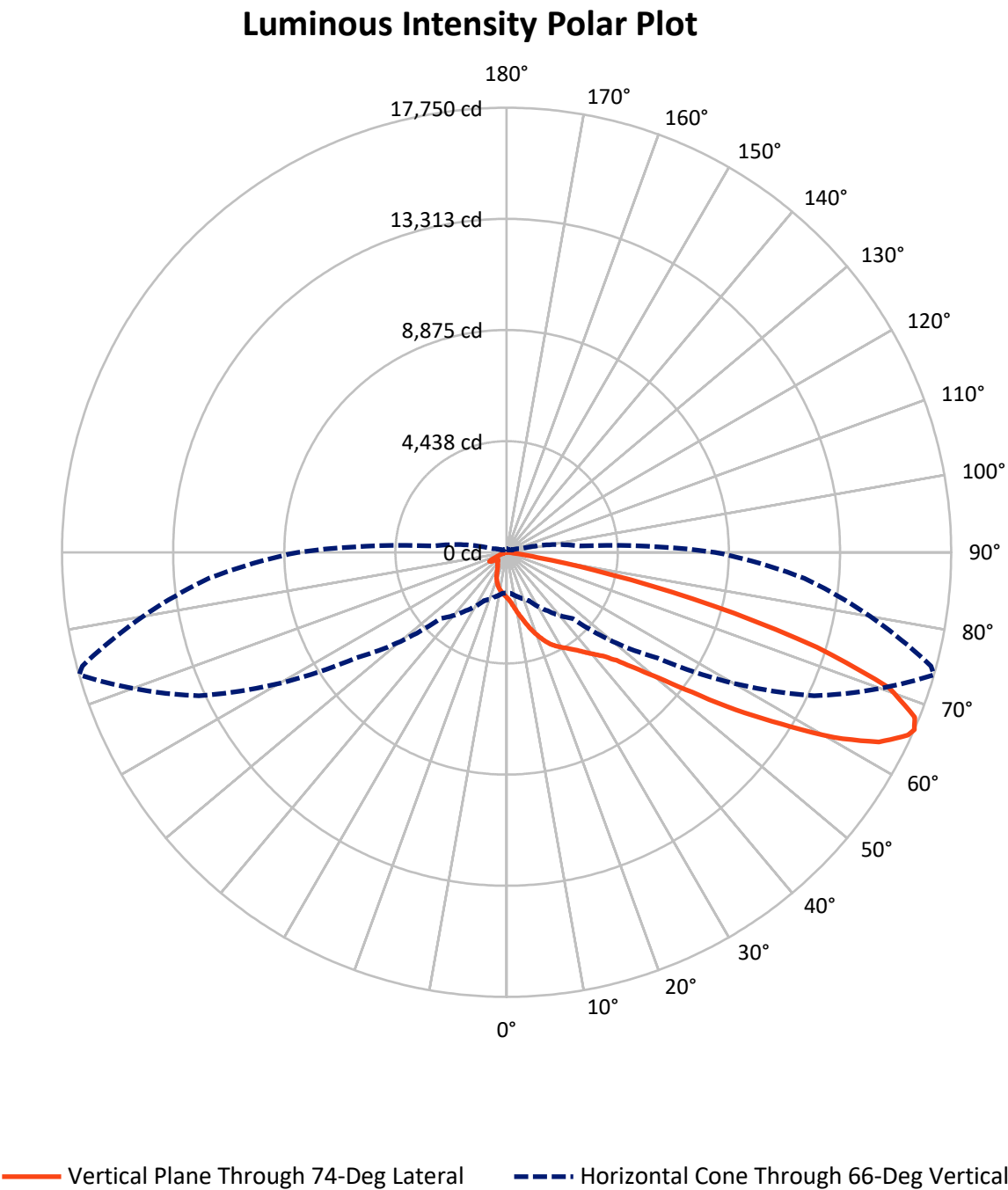
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
Type II - Short - N/A

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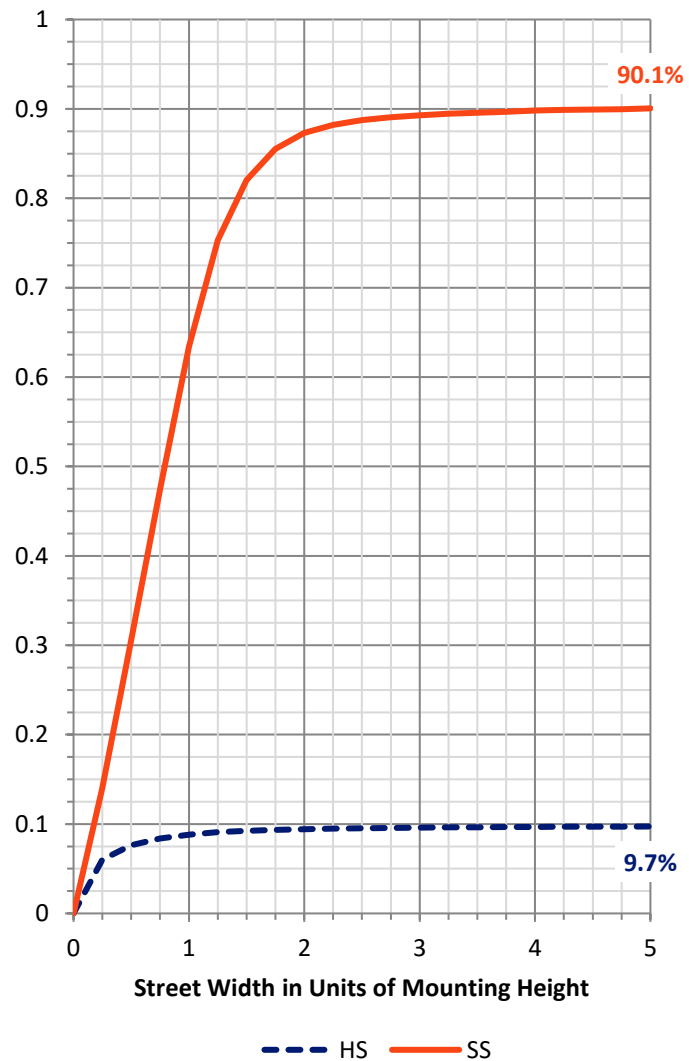
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1621.8	0.0	1621.8
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	14922.2	0.0	14922.2
	% Fixture	90.2	0.0	90.2
Total	Lumens	16544.0	0.0	16544.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.3	1.1
10°-20°	565.1	3.4
20°-30°	1078.4	6.5
30°-40°	1890.2	11.4
40°-50°	3241.3	19.6
50°-60°	4215.5	25.5
60°-70°	3816.1	23.1
70°-80°	1472.5	8.9
80°-90°	88.6	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°	16544.0	100.0
0°-180°	16544.0	100.0

Coefficient of Utilization



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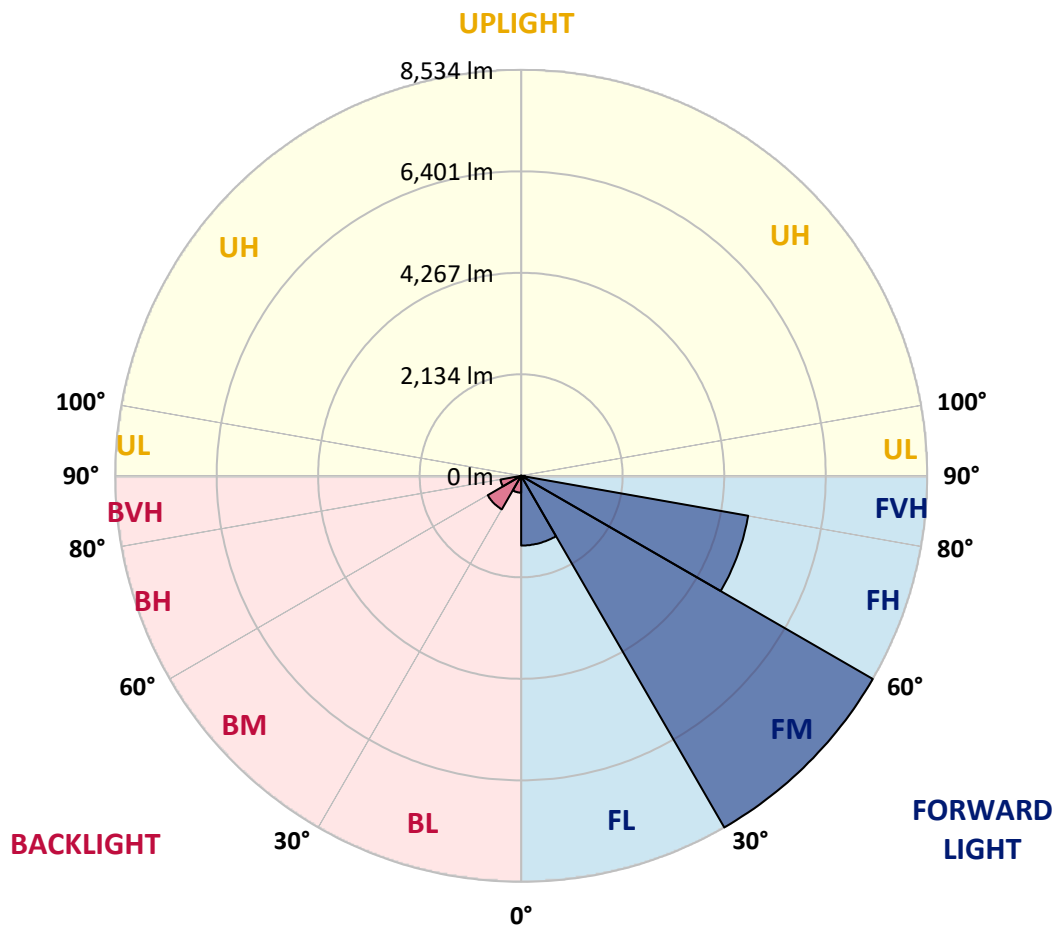
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1466.0	8.9			
FM	(30°-60°)	8534.2	51.6			
FH	(60°-80°)	4845.2	29.3			G2/5000
FVH	(80°-90°)	76.7	0.5			G1/100
BL	(0°-30°)	353.8	2.1	B1/500		
BM	(30°-60°)	812.8	4.9	B1/1000		
BH	(60°-80°)	443.4	2.7	B1/500		G1/500
BVH	(80°-90°)	11.9	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9
2.5°	2168.3	2150.5	2117.8	2114.8	2088.1	2055.4	1999.0	1939.6	1898.0	1892.1	1841.6
5°	2596.0	2587.1	2554.4	2533.6	2483.1	2405.9	2275.2	2144.5	2034.6	2022.7	1909.9
7.5°	2708.9	2714.8	2720.8	2741.6	2723.7	2688.1	2590.1	2405.9	2233.6	2206.9	2010.9
10°	2726.7	2720.8	2720.8	2747.5	2798.0	2848.5	2836.6	2679.2	2456.4	2423.7	2150.5
12.5°	2919.8	2928.7	2907.9	2896.0	2887.1	2913.8	3002.9	2934.6	2691.1	2664.3	2319.8
15°	3169.3	3166.3	3136.6	3136.6	3109.9	3065.3	3121.7	3172.2	2973.2	2940.6	2512.8
17.5°	3350.5	3362.3	3359.4	3377.2	3368.3	3308.9	3279.2	3383.1	3264.3	3222.7	2732.6
20°	3496.0	3528.7	3540.6	3597.0	3623.7	3582.1	3504.9	3570.3	3543.5	3504.9	2955.4
22.5°	3650.5	3677.2	3698.0	3796.0	3870.3	3861.3	3763.3	3748.5	3813.8	3778.2	3175.2
25°	3804.9	3816.8	3879.2	3998.0	4116.8	4146.5	4045.5	3929.7	4057.4	4024.7	3371.2
27.5°	3974.2	3980.2	4054.4	4200.0	4366.3	4428.7	4348.5	4134.6	4244.5	4244.5	3549.5
30°	4283.1	4342.5	4372.2	4502.9	4648.5	4734.6	4639.6	4351.4	4410.8	4437.6	3736.6
32.5°	4948.5	4957.4	4948.5	5004.9	5034.6	5085.1	4975.2	4595.0	4580.1	4609.8	3920.7
35°	5964.3	5928.6	5833.6	5750.4	5578.2	5483.1	5340.5	4906.9	4788.1	4829.6	4101.9
37.5°	7197.0	7146.5	6929.6	6674.2	6305.9	5925.7	5747.5	5287.1	5052.4	5105.9	4298.0
40°	8373.2	8340.5	8082.1	7767.2	7137.5	6487.1	6109.8	5607.9	5346.5	5367.3	4497.0
42.5°	9341.5	9335.5	9118.7	8789.0	7981.1	7093.0	6537.6	5922.7	5655.4	5688.1	4704.9
45°	10075.1	10018.7	9858.3	9620.7	8797.9	7722.7	7054.4	6400.9	6151.4	6190.0	5016.8
47.5°	10075.1	10084.0	10188.0	10164.2	9368.2	8313.8	7618.7	7003.9	6885.1	6920.7	5530.6
50°	9255.3	9338.5	9801.9	10191.0	9665.2	8774.2	8227.6	7758.3	7880.1	7933.6	6427.7
52.5°	7633.6	7773.2	8578.1	9466.2	9445.4	9005.8	8857.3	8717.7	9264.3	9359.3	7752.4
55°	5800.9	5893.0	6941.5	8108.8	8489.0	8815.7	9406.8	9935.5	11096.9	11076.1	9097.9
57.5°	4333.6	4419.8	5322.7	6617.7	7119.7	7993.0	9689.0	11328.6	12914.7	12994.9	10360.3
60°	3187.1	3252.4	4021.7	5085.1	5809.8	6733.6	9576.1	12700.8	15008.7	14916.7	11474.1
62.5°	2358.4	2394.0	2949.5	3641.5	4603.9	5486.1	8866.2	13639.5	16681.0	16493.9	12094.9
65°	1823.7	1835.6	2123.7	2492.1	3347.5	4265.3	7808.8	13782.0	17604.8	17405.7	12083.0
66°	1624.7	1633.6	1844.5	2129.7	2848.5	3733.6	7345.5	13553.3	17750.3	17539.4	11934.5
67.5°	1363.4	1357.4	1482.2	1669.3	2138.6	2881.2	6522.7	12885.0	17578.0	17471.1	11459.3
70°	1009.9	1012.9	1075.2	1119.8	1250.5	1595.0	4710.8	11177.1	16199.8	16193.9	10155.3
72.5°	748.5	757.4	804.9	813.9	781.2	864.3	2714.8	8890.0	12959.3	12962.2	7592.0
75°	561.4	576.2	591.1	597.0	567.3	546.5	1226.7	5982.1	8524.7	8462.3	4298.0
77.5°	427.7	433.7	445.5	436.6	430.7	377.2	510.9	2916.8	4208.9	3834.6	1393.1
80°	311.9	311.9	323.8	311.9	308.9	270.3	279.2	935.6	1235.6	1027.7	300.0
82.5°	196.0	193.1	202.0	199.0	193.1	172.3	163.4	261.4	285.1	255.4	145.5
85°	109.9	106.9	104.0	101.0	92.1	77.2	89.1	98.0	130.7	133.7	104.0
87.5°	38.6	38.6	35.6	32.7	26.7	26.7	32.7	32.7	47.5	47.5	53.5
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°	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9	1805.9
2.5°	1817.8	1785.1	1737.6	1675.2	1630.7	1586.1	1538.6	1511.9	1473.3	1464.3	1476.2
5°	1850.5	1791.1	1672.3	1541.6	1428.7	1327.7	1232.7	1176.2	1119.8	1099.0	1107.9
7.5°	1918.8	1817.8	1615.8	1404.9	1217.8	1066.3	953.5	888.1	837.6	816.8	822.8
10°	2019.8	1865.3	1562.4	1250.5	1009.9	849.5	754.4	712.9	683.2	671.3	674.2
12.5°	2141.6	1933.6	1494.0	1096.0	831.7	692.1	647.5	638.6	632.7	626.7	629.7
15°	2278.2	1993.0	1413.8	944.5	692.1	614.8	600.0	597.0	594.1	594.1	594.1
17.5°	2420.8	2046.5	1324.7	802.0	603.0	567.3	558.4	558.4	558.4	561.4	561.4
20°	2554.4	2088.1	1220.8	674.2	552.5	522.8	516.8	516.8	519.8	522.8	522.8
22.5°	2685.1	2105.9	1099.0	585.1	510.9	484.2	475.2	475.2	475.2	478.2	478.2
25°	2798.0	2105.9	977.2	528.7	475.2	448.5	436.6	433.7	436.6	436.6	436.6
27.5°	2893.0	2097.0	858.4	490.1	439.6	412.9	401.0	398.0	404.0	406.9	406.9
30°	2994.0	2085.1	763.4	454.5	409.9	383.2	371.3	371.3	380.2	392.1	392.1
32.5°	3092.0	2094.0	689.1	424.7	380.2	359.4	347.5	350.5	368.3	386.1	386.1
35°	3196.0	2111.9	644.5	404.0	359.4	338.6	329.7	338.6	356.4	374.3	374.3
37.5°	3300.0	2132.6	617.8	386.1	341.6	320.8	314.8	326.7	347.5	365.3	368.3
40°	3409.9	2150.5	588.1	368.3	329.7	305.9	303.0	314.8	341.6	359.4	362.4
42.5°	3546.5	2186.1	552.5	353.5	317.8	288.1	291.1	300.0	326.7	353.5	356.4
45°	3813.8	2299.0	516.8	338.6	303.0	279.2	273.3	279.2	308.9	338.6	344.6
47.5°	4315.8	2554.4	478.2	323.8	288.1	273.3	249.5	255.4	282.2	314.8	317.8
50°	5278.2	3098.0	457.4	308.9	276.2	252.5	225.7	225.7	246.5	276.2	276.2
52.5°	6778.1	4072.2	469.3	297.0	261.4	231.7	204.9	202.0	213.9	234.7	234.7
55°	8396.9	5141.5	513.9	285.1	243.6	219.8	190.1	175.2	184.2	196.0	196.0
57.5°	9680.1	5679.1	635.6	279.2	222.8	210.9	172.3	151.5	160.4	172.3	172.3
60°	10244.4	5364.3	772.3	285.1	207.9	196.0	154.5	133.7	148.5	160.4	163.4
62.5°	9787.0	4416.8	828.7	270.3	187.1	175.2	151.5	124.8	142.6	151.5	154.5
65°	8797.9	3356.4	647.5	234.7	172.3	151.5	136.6	118.8	133.7	142.6	142.6
66°	8328.6	2925.7	552.5	216.8	166.3	142.6	130.7	118.8	130.7	136.6	139.6
67.5°	7600.9	2307.9	409.9	190.1	154.5	130.7	121.8	112.9	124.8	130.7	130.7
70°	5943.5	1375.2	246.5	148.5	133.7	115.8	109.9	104.0	112.9	115.8	115.8
72.5°	3721.7	653.5	157.4	109.9	112.9	109.9	92.1	98.0	101.0	104.0	104.0
75°	1803.0	258.4	106.9	80.2	92.1	104.0	74.3	86.1	89.1	95.0	92.1
77.5°	502.0	124.8	68.3	59.4	80.2	80.2	56.4	68.3	80.2	101.0	92.1
80°	145.5	80.2	44.6	44.6	56.4	56.4	38.6	47.5	53.5	59.4	62.4
82.5°	101.0	53.5	29.7	32.7	32.7	35.6	23.8	23.8	29.7	29.7	32.7
85°	80.2	23.8	17.8	20.8	14.9	17.8	11.9	11.9	14.9	11.9	11.9
87.5°	32.7	11.9	11.9	11.9	8.9	8.9	5.9	3.0	3.0	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)