

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: P1211320

Luminaire Tested: **ARCH4-240-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211320
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: ARCH4-240-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 940mA 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: 23952 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 240.2
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



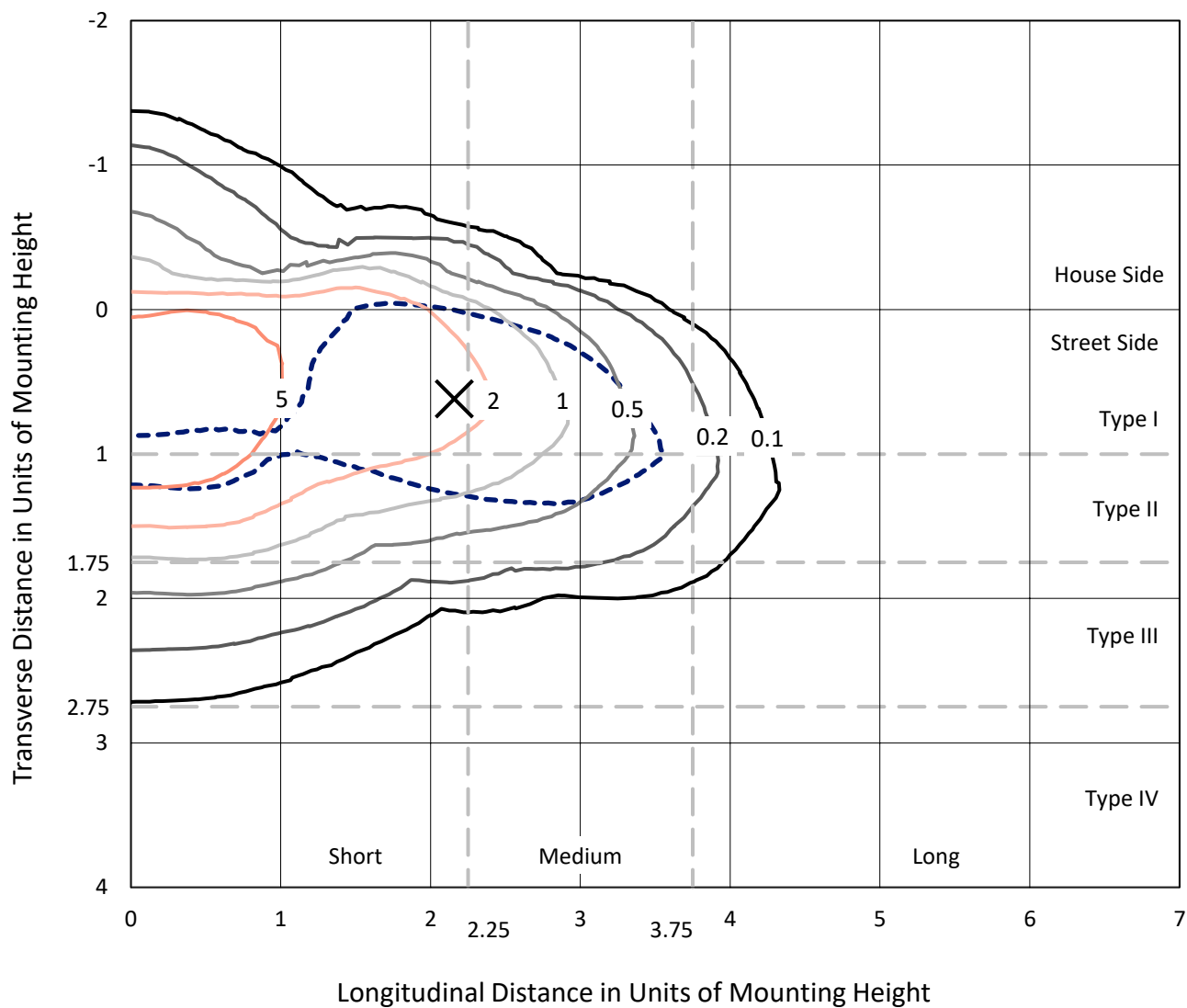
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

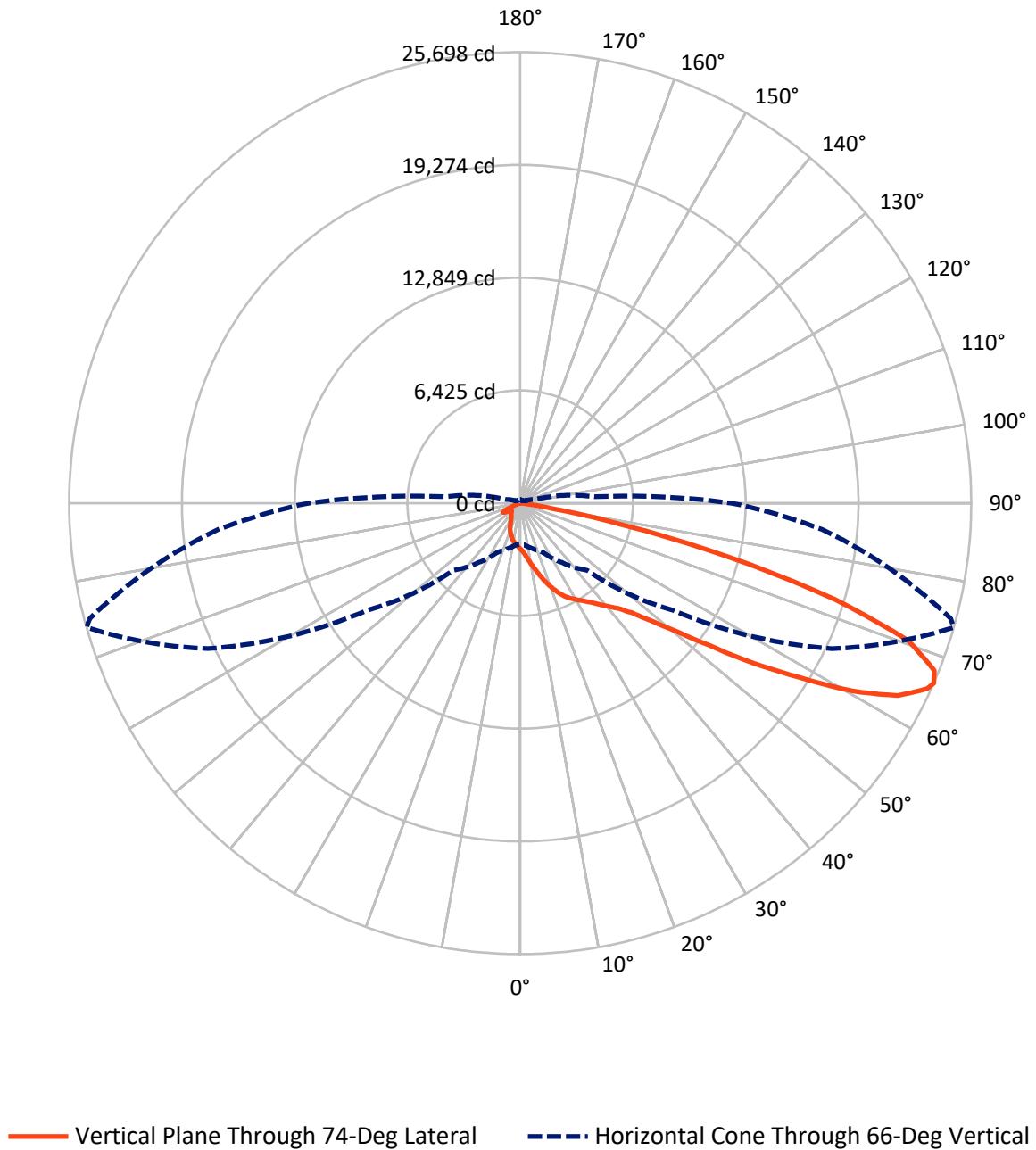


Based on 25 foot mounting height. Maximum calculated value = 8.7 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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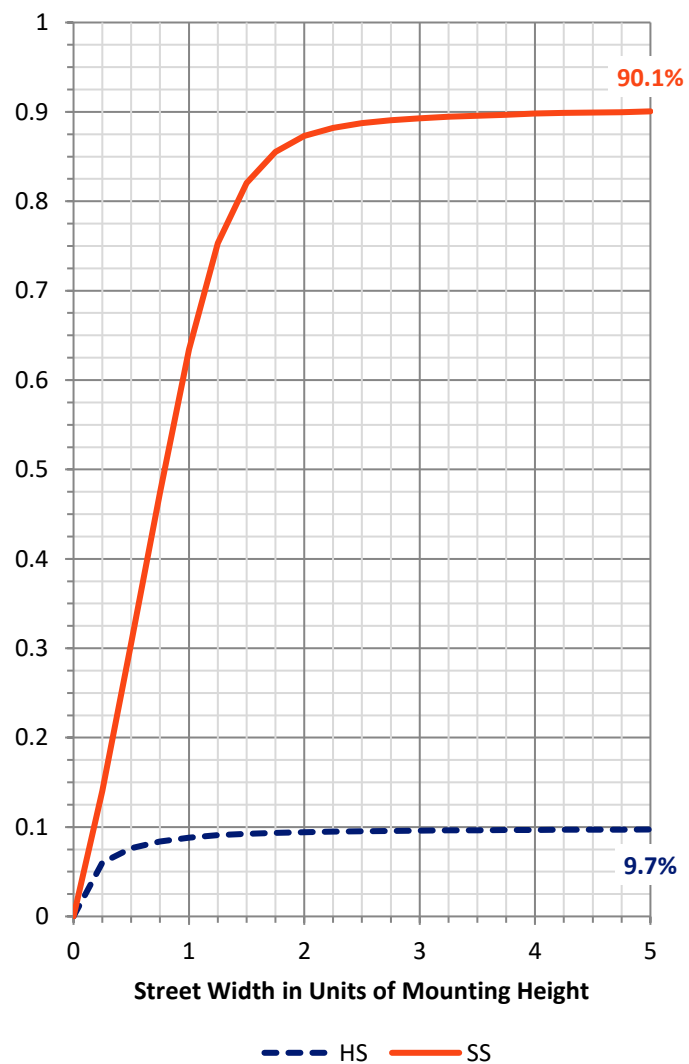
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2348.0	0.0	2348.0
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	21603.9	0.0	21603.9
	% Fixture	90.2	0.0	90.2
Total	Lumens	23952.0	0.0	23952.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.2	1.1
10°-20°	818.1	3.4
20°-30°	1561.3	6.5
30°-40°	2736.6	11.4
40°-50°	4692.6	19.6
50°-60°	6103.1	25.5
60°-70°	5524.8	23.1
70°-80°	2131.8	8.9
80°-90°	128.3	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°	23952.0	100.0
0°-180°	23952.0	100.0

Coefficient of Utilization



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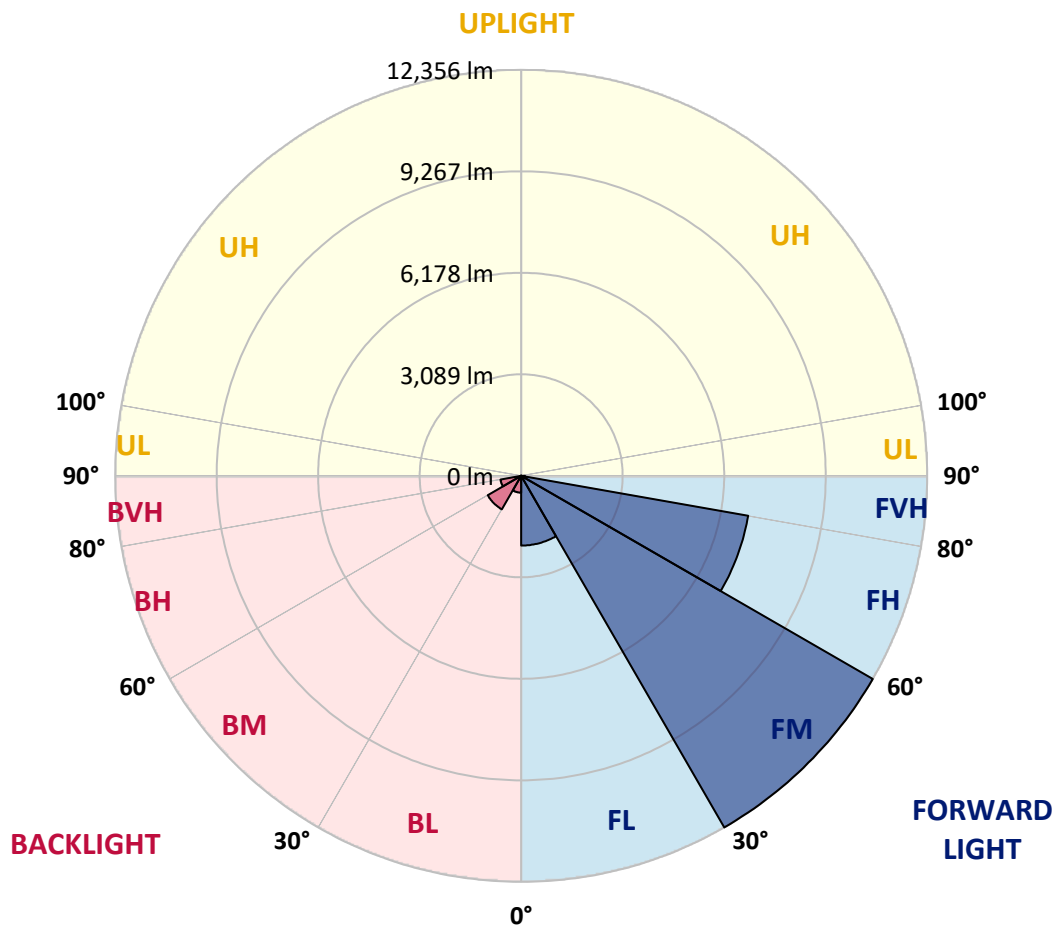
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2122.5	8.9			
FM	(30°-60°)	12355.6	51.6			
FH	(60°-80°)	7014.7	29.3			G3/7500
FVH	(80°-90°)	111.1	0.5			G2/225
BL	(0°-30°)	512.2	2.1	B2/1000		
BM	(30°-60°)	1176.7	4.9	B2/2500		
BH	(60°-80°)	641.9	2.7	B2/1000		G2/1000
BVH	(80°-90°)	17.2	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2614.6	2614.6	2614.6	2614.6	2614.6	2614.6	2614.6	2614.6	2614.6	2614.6	2614.6
2.5°	3139.2	3113.4	3066.1	3061.8	3023.1	2975.8	2894.1	2808.1	2747.9	2739.3	2666.2
5°	3758.4	3745.5	3698.2	3668.1	3595.0	3483.2	3294.0	3104.8	2945.7	2928.5	2765.1
7.5°	3921.9	3930.5	3939.1	3969.2	3943.4	3891.7	3749.8	3483.2	3233.8	3195.1	2911.3
10°	3947.7	3939.1	3939.1	3977.8	4050.9	4124.0	4106.8	3878.8	3556.3	3509.0	3113.4
12.5°	4227.2	4240.1	4210.0	4192.8	4179.9	4218.6	4347.6	4248.7	3896.1	3857.3	3358.5
15°	4588.4	4584.1	4541.1	4541.1	4502.4	4437.9	4519.6	4592.7	4304.6	4257.3	3638.0
17.5°	4850.7	4867.9	4863.6	4889.4	4876.5	4790.5	4747.5	4898.0	4726.0	4665.8	3956.3
20°	5061.4	5108.7	5125.9	5207.6	5246.3	5186.1	5074.3	5168.9	5130.2	5074.3	4278.8
22.5°	5285.0	5323.7	5353.8	5495.8	5603.3	5590.4	5448.4	5426.9	5521.6	5470.0	4597.0
25°	5508.7	5525.9	5616.2	5788.2	5960.2	6003.2	5857.0	5689.3	5874.2	5826.9	4880.8
27.5°	5753.8	5762.4	5869.9	6080.6	6321.4	6411.7	6295.6	5986.0	6145.1	6145.1	5138.8
30°	6201.0	6287.0	6330.0	6519.2	6729.9	6854.6	6717.0	6299.9	6385.9	6424.6	5409.7
32.5°	7164.3	7177.2	7164.3	7246.0	7289.0	7362.1	7203.0	6652.5	6631.0	6674.0	5676.4
35°	8635.0	8583.4	8445.7	8325.3	8075.9	7938.3	7731.9	7104.1	6932.0	6992.2	5938.7
37.5°	10419.6	10346.5	10032.5	9662.7	9129.5	8579.1	8321.0	7654.5	7314.8	7392.2	6222.5
40°	12122.5	12075.2	11701.1	11245.2	10333.6	9391.8	8845.7	8118.9	7740.5	7770.6	6510.6
42.5°	13524.4	13515.8	13201.8	12724.5	11554.8	10269.1	9464.9	8574.8	8187.7	8235.0	6811.6
45°	14586.5	14504.8	14272.6	13928.6	12737.4	11180.7	10213.2	9267.1	8905.9	8961.8	7263.2
47.5°	14586.5	14599.4	14749.9	14715.5	13563.1	12036.5	11030.2	10140.1	9968.0	10019.6	8007.1
50°	13399.7	13520.1	14190.9	14754.2	13993.1	12703.0	11911.8	11232.3	11408.6	11486.0	9305.8
52.5°	11051.7	11253.8	12419.2	13705.0	13674.9	13038.4	12823.4	12621.3	13412.6	13550.2	11223.7
55°	8398.4	8531.7	10049.7	11739.8	12290.2	12763.2	13619.0	14384.4	16065.8	16035.7	13171.7
57.5°	6274.1	6398.8	7706.1	9581.0	10307.8	11572.0	14027.5	16401.3	18697.6	18813.7	14999.4
60°	4614.2	4708.8	5822.6	7362.1	8411.3	9748.7	13864.1	18388.0	21729.3	21596.0	16612.0
62.5°	3414.4	3466.0	4270.2	5272.1	6665.4	7942.6	12836.3	19746.9	24150.4	23879.4	17510.7
65°	2640.4	2657.6	3074.7	3607.9	4846.4	6175.2	11305.4	19953.3	25487.7	25199.6	17493.5
66°	2352.3	2365.2	2670.5	3083.3	4124.0	5405.4	10634.6	19622.2	25698.4	25393.1	17278.5
67.5°	1973.8	1965.2	2145.8	2416.8	3096.2	4171.3	9443.4	18654.6	25449.0	25294.2	16590.5
70°	1462.1	1466.4	1556.7	1621.2	1810.4	2309.2	6820.2	16181.9	23453.7	23445.1	14702.6
72.5°	1083.7	1096.6	1165.4	1178.3	1131.0	1251.4	3930.5	12870.7	18762.1	18766.4	10991.5
75°	812.8	834.3	855.8	864.4	821.4	791.3	1776.0	8660.8	12341.8	12251.5	6222.5
77.5°	619.2	627.8	645.0	632.1	623.5	546.1	739.6	4222.9	6093.5	5551.7	2016.8
80°	451.5	451.5	468.7	451.5	447.2	391.3	404.2	1354.6	1788.9	1487.9	434.3
82.5°	283.8	279.5	292.4	288.1	279.5	249.4	236.5	378.4	412.8	369.8	210.7
85°	159.1	154.8	150.5	146.2	133.3	111.8	129.0	141.9	189.2	193.5	150.5
87.5°	55.9	55.9	51.6	47.3	38.7	38.7	47.3	47.3	68.8	68.8	77.4
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°	2614.6	2614.6	2614.6	2614.6	2614.6	2614.6	2614.6	2614.6	2614.6	2614.6	2614.6
2.5°	2631.8	2584.5	2515.7	2425.4	2360.9	2296.3	2227.5	2188.8	2132.9	2120.0	2137.2
5°	2679.1	2593.1	2421.1	2231.8	2068.4	1922.2	1784.6	1702.9	1621.2	1591.1	1604.0
7.5°	2778.0	2631.8	2339.4	2034.0	1763.1	1543.8	1380.4	1285.8	1212.7	1182.6	1191.2
10°	2924.2	2700.6	2261.9	1810.4	1462.1	1229.9	1092.3	1032.1	989.1	971.9	976.2
12.5°	3100.5	2799.5	2163.0	1586.8	1204.1	1002.0	937.5	924.6	916.0	907.4	911.7
15°	3298.3	2885.5	2046.9	1367.5	1002.0	890.2	868.7	864.4	860.1	860.1	860.1
17.5°	3504.7	2962.9	1917.9	1161.1	873.0	821.4	808.5	808.5	808.5	812.8	812.8
20°	3698.2	3023.1	1767.4	976.2	799.9	756.8	748.2	748.2	752.5	756.8	756.8
22.5°	3887.4	3048.9	1591.1	847.2	739.6	700.9	688.0	688.0	688.0	692.3	692.3
25°	4050.9	3048.9	1414.8	765.4	688.0	649.3	632.1	627.8	632.1	632.1	632.1
27.5°	4188.5	3036.0	1242.8	709.5	636.4	597.7	580.5	576.2	584.8	589.1	589.1
30°	4334.7	3018.8	1105.2	657.9	593.4	554.7	537.5	537.5	550.4	567.6	567.6
32.5°	4476.6	3031.7	997.7	614.9	550.4	520.3	503.1	507.4	533.2	559.0	559.0
35°	4627.1	3057.5	933.2	584.8	520.3	490.2	477.3	490.2	516.0	541.8	541.8
37.5°	4777.6	3087.6	894.5	559.0	494.5	464.4	455.8	473.0	503.1	528.9	533.2
40°	4936.7	3113.4	851.5	533.2	477.3	442.9	438.6	455.8	494.5	520.3	524.6
42.5°	5134.5	3165.0	799.9	511.7	460.1	417.1	421.4	434.3	473.0	511.7	516.0
45°	5521.6	3328.4	748.2	490.2	438.6	404.2	395.6	404.2	447.2	490.2	498.8
47.5°	6248.3	3698.2	692.3	468.7	417.1	395.6	361.2	369.8	408.5	455.8	460.1
50°	7641.6	4485.2	662.2	447.2	399.9	365.5	326.8	326.8	356.9	399.9	399.9
52.5°	9813.2	5895.7	679.4	430.0	378.4	335.4	296.7	292.4	309.6	339.7	339.7
55°	12156.9	7443.8	743.9	412.8	352.6	318.2	275.2	253.7	266.6	283.8	283.8
57.5°	14014.6	8222.1	920.3	404.2	322.5	305.3	249.4	219.3	232.2	249.4	249.4
60°	14831.7	7766.3	1118.1	412.8	301.0	283.8	223.6	193.5	215.0	232.2	236.5
62.5°	14169.4	6394.5	1199.8	391.3	270.9	253.7	219.3	180.6	206.4	219.3	223.6
65°	12737.4	4859.3	937.5	339.7	249.4	219.3	197.8	172.0	193.5	206.4	206.4
66°	12058.0	4235.8	799.9	313.9	240.8	206.4	189.2	172.0	189.2	197.8	202.1
67.5°	11004.4	3341.3	593.4	275.2	223.6	189.2	176.3	163.4	180.6	189.2	189.2
70°	8604.9	1991.0	356.9	215.0	193.5	167.7	159.1	150.5	163.4	167.7	167.7
72.5°	5388.2	946.1	227.9	159.1	163.4	159.1	133.3	141.9	146.2	150.5	150.5
75°	2610.3	374.1	154.8	116.1	133.3	150.5	107.5	124.7	129.0	137.6	133.3
77.5°	726.7	180.6	98.9	86.0	116.1	116.1	81.7	98.9	116.1	146.2	133.3
80°	210.7	116.1	64.5	64.5	81.7	81.7	55.9	68.8	77.4	86.0	90.3
82.5°	146.2	77.4	43.0	47.3	47.3	51.6	34.4	34.4	43.0	43.0	47.3
85°	116.1	34.4	25.8	30.1	21.5	25.8	17.2	17.2	21.5	17.2	17.2
87.5°	47.3	17.2	17.2	17.2	12.9	12.9	8.6	4.3	4.3	4.3	4.3
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)