

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: P1210516

Luminaire Tested: **ARCH3-150-722-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210516
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: ARCH3-150-722-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12977 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

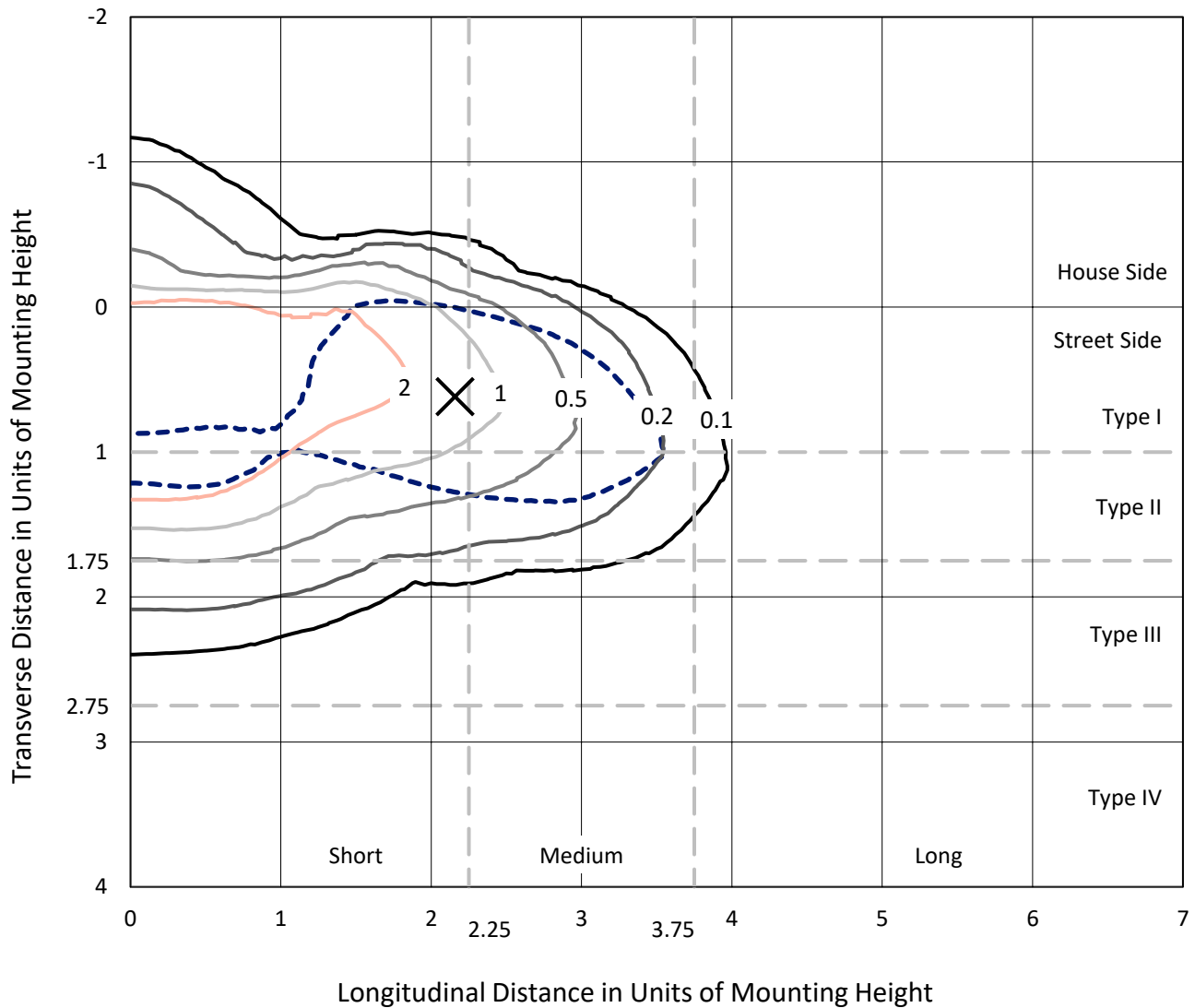
Input Watts (W): 150.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

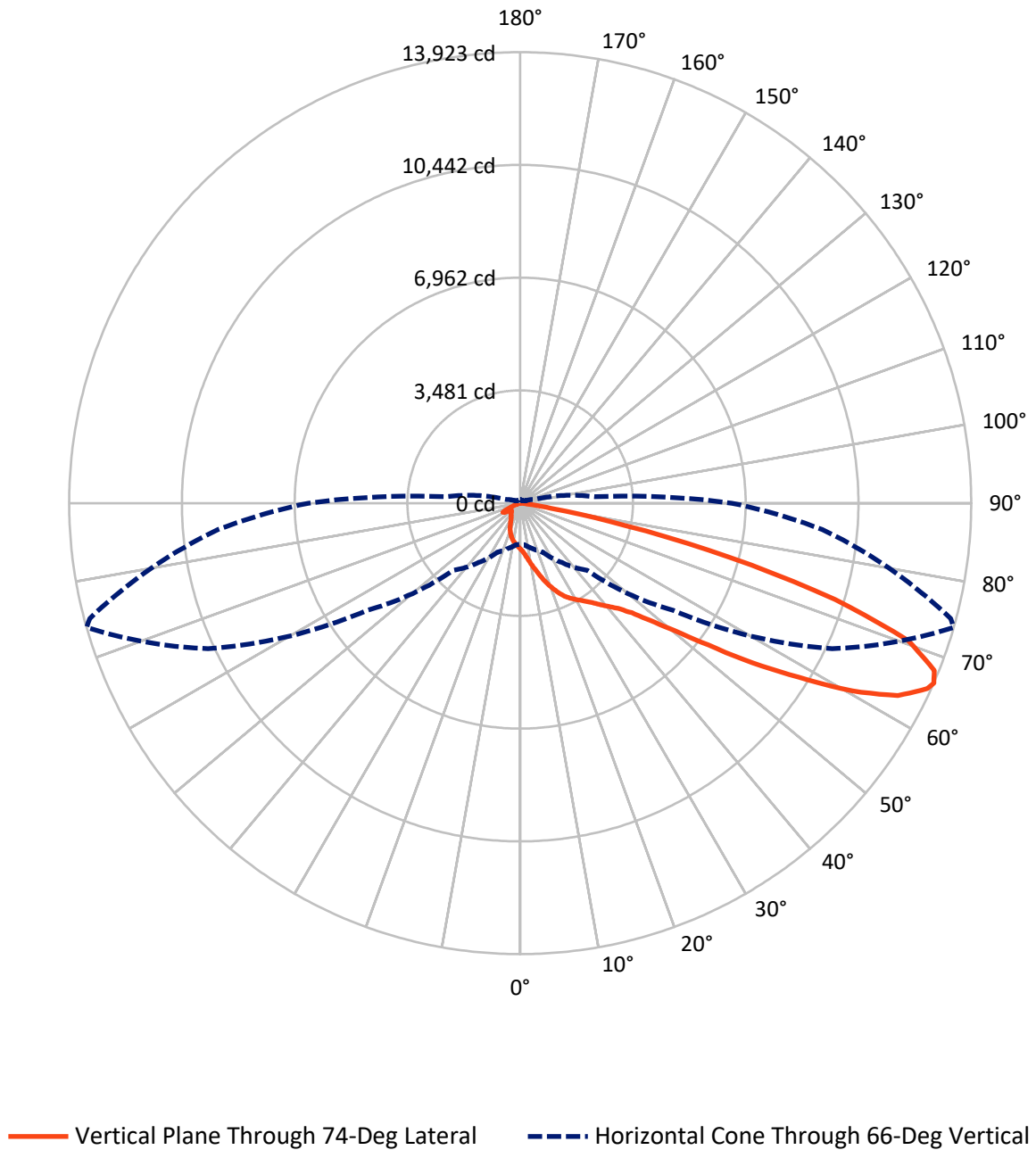
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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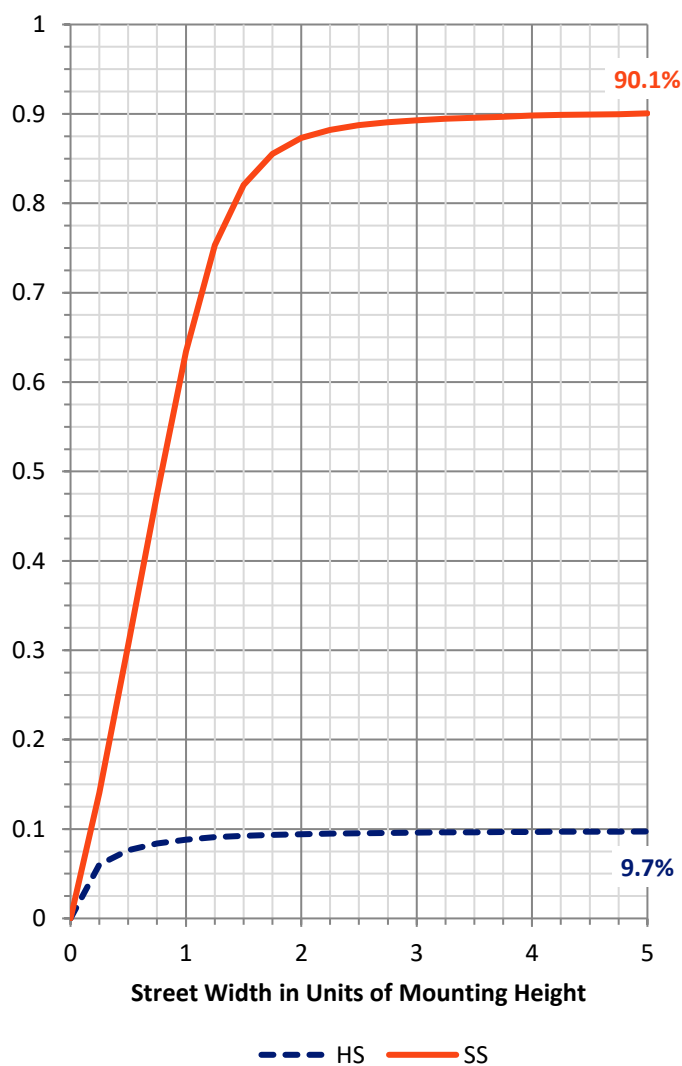
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1272.2	0.0	1272.2
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	11704.8	0.0	11704.8
	% Fixture	90.2	0.0	90.2
Total	Lumens	12977.0	0.0	12977.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	1.1
10°-20°	443.3	3.4
20°-30°	845.9	6.5
30°-40°	1482.7	11.4
40°-50°	2542.4	19.6
50°-60°	3306.6	25.5
60°-70°	2993.3	23.1
70°-80°	1155.0	8.9
80°-90°	69.5	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°	12977.0	100.0
0°-180°	12977.0	100.0

Coefficient of Utilization



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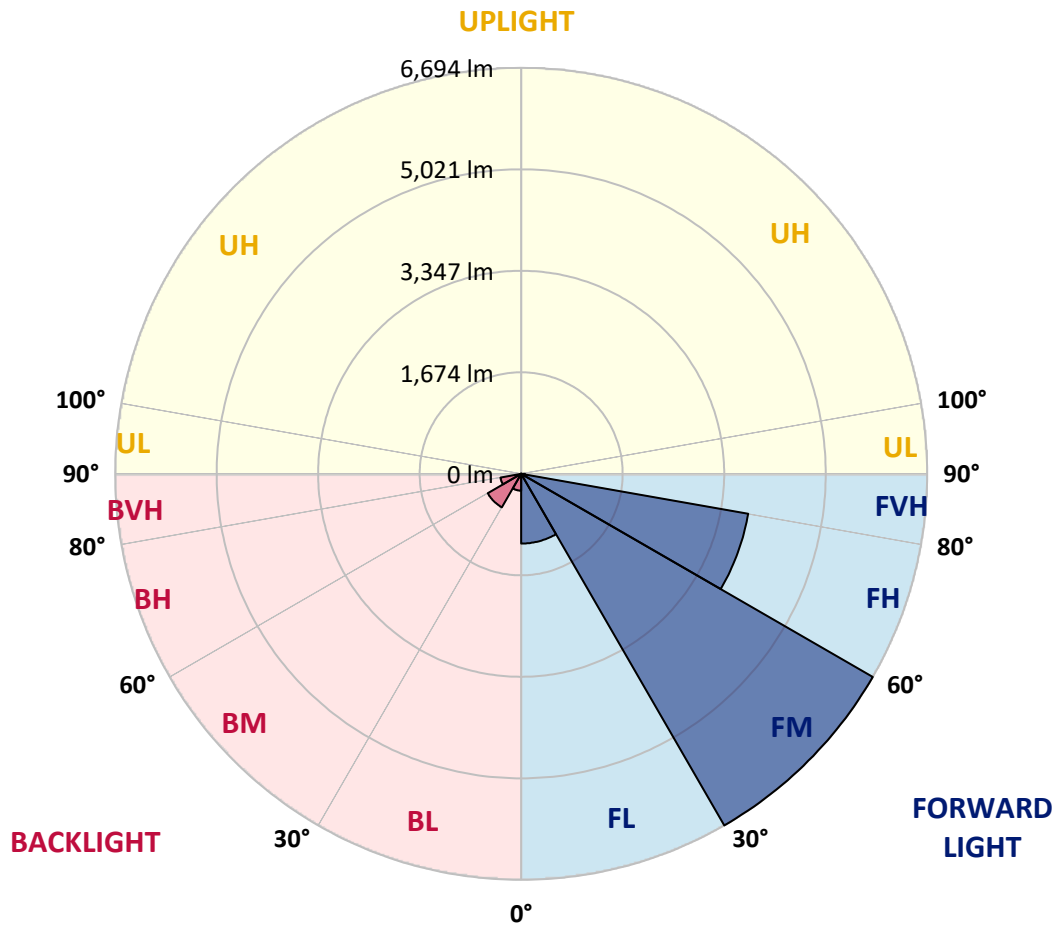
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1150.0	8.9			
FM	(30°-60°)	6694.2	51.6			
FH	(60°-80°)	3800.5	29.3			G2/5000
FVH	(80°-90°)	60.2	0.5			G1/100
BL	(0°-30°)	277.5	2.1	B1/500		
BM	(30°-60°)	637.6	4.9	B1/1000		
BH	(60°-80°)	347.8	2.7	B1/500		G1/500
BVH	(80°-90°)	9.3	0.1			G0/10
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°	1416.6	1416.6	1416.6	1416.6	1416.6	1416.6	1416.6	1416.6	1416.6	1416.6	1416.6
2.5°	1700.8	1686.8	1661.2	1658.9	1637.9	1612.3	1568.0	1521.4	1488.8	1484.1	1444.5
5°	2036.3	2029.3	2003.7	1987.4	1947.8	1887.2	1784.7	1682.2	1596.0	1586.6	1498.1
7.5°	2124.8	2129.5	2134.1	2150.5	2136.5	2108.5	2031.6	1887.2	1752.1	1731.1	1577.3
10°	2138.8	2134.1	2134.1	2155.1	2194.7	2234.3	2225.0	2101.5	1926.8	1901.2	1686.8
12.5°	2290.2	2297.2	2280.9	2271.6	2264.6	2285.6	2355.5	2301.9	2110.8	2089.9	1819.6
15°	2486.0	2483.6	2460.3	2460.3	2439.4	2404.4	2448.7	2488.3	2332.2	2306.6	1971.1
17.5°	2628.1	2637.4	2635.1	2649.0	2642.1	2595.5	2572.2	2653.7	2560.5	2527.9	2143.5
20°	2742.2	2767.9	2777.2	2821.5	2842.4	2809.8	2749.2	2800.5	2779.5	2749.2	2318.2
22.5°	2863.4	2884.4	2900.7	2977.6	3035.8	3028.8	2951.9	2940.3	2991.5	2963.6	2490.6
25°	2984.5	2993.9	3042.8	3136.0	3229.2	3252.5	3173.3	3082.4	3182.6	3157.0	2644.4
27.5°	3117.3	3122.0	3180.3	3294.4	3424.9	3473.8	3410.9	3243.2	3329.4	3329.4	2784.2
30°	3359.7	3406.2	3429.5	3532.1	3646.2	3713.8	3639.2	3413.2	3459.8	3480.8	2931.0
32.5°	3881.5	3888.5	3881.5	3925.8	3949.1	3988.7	3902.5	3604.3	3592.6	3615.9	3075.4
35°	4678.3	4650.4	4575.8	4510.6	4375.5	4300.9	4189.1	3848.9	3755.7	3788.3	3217.5
37.5°	5645.2	5605.6	5435.6	5235.2	4946.3	4648.1	4508.3	4147.1	3963.1	4005.0	3371.3
40°	6567.9	6542.2	6339.5	6092.6	5598.6	5088.4	4792.5	4398.8	4193.7	4210.0	3527.4
42.5°	7327.4	7322.7	7152.7	6894.0	6260.3	5563.7	5128.0	4645.7	4436.0	4461.7	3690.5
45°	7902.9	7858.6	7732.8	7546.4	6901.0	6057.6	5533.4	5020.8	4825.1	4855.4	3935.1
47.5°	7902.9	7909.9	7991.4	7972.8	7348.4	6521.3	5976.1	5493.8	5400.6	5428.6	4338.2
50°	7259.8	7325.1	7688.5	7993.7	7581.3	6882.4	6453.7	6085.6	6181.1	6223.0	5041.8
52.5°	5987.7	6097.2	6728.6	7425.2	7408.9	7064.1	6947.6	6838.1	7266.8	7341.4	6080.9
55°	4550.2	4622.4	5444.9	6360.5	6658.7	6915.0	7378.7	7793.4	8704.3	8688.0	7136.3
57.5°	3399.3	3466.8	4175.1	5190.9	5584.7	6269.6	7600.0	8886.1	10130.2	10193.1	8126.5
60°	2499.9	2551.2	3154.6	3988.7	4557.2	5281.8	7511.5	9962.5	11772.8	11700.5	9000.2
62.5°	1849.9	1877.9	2313.5	2856.4	3611.3	4303.2	6954.6	10698.7	13084.5	12937.7	9487.2
65°	1430.5	1439.9	1665.8	1954.7	2625.7	3345.7	6125.2	10810.5	13809.0	13652.9	9477.8
66°	1274.4	1281.4	1446.8	1670.5	2234.3	2928.6	5761.7	10631.1	13923.2	13757.8	9361.4
67.5°	1069.4	1064.7	1162.6	1309.4	1677.5	2260.0	5116.4	10106.9	13788.1	13704.2	8988.6
70°	792.2	794.5	843.4	878.4	980.9	1251.1	3695.1	8767.2	12707.0	12702.4	7965.8
72.5°	587.1	594.1	631.4	638.4	612.8	678.0	2129.5	6973.3	10165.2	10167.5	5955.1
75°	440.3	452.0	463.6	468.3	445.0	428.7	962.2	4692.3	6686.7	6637.8	3371.3
77.5°	335.5	340.2	349.5	342.5	337.8	295.9	400.7	2287.9	3301.4	3007.8	1092.7
80°	244.6	244.6	254.0	244.6	242.3	212.0	219.0	733.9	969.2	806.1	235.3
82.5°	153.8	151.4	158.4	156.1	151.4	135.1	128.1	205.0	223.7	200.4	114.2
85°	86.2	83.9	81.5	79.2	72.2	60.6	69.9	76.9	102.5	104.8	81.5
87.5°	30.3	30.3	28.0	25.6	21.0	21.0	25.6	25.6	37.3	37.3	41.9
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°	1416.6	1416.6	1416.6	1416.6	1416.6	1416.6	1416.6	1416.6	1416.6	1416.6	1416.6
2.5°	1425.9	1400.2	1363.0	1314.0	1279.1	1244.1	1206.9	1185.9	1155.6	1148.6	1157.9
5°	1451.5	1404.9	1311.7	1209.2	1120.7	1041.4	966.9	922.6	878.4	862.0	869.0
7.5°	1505.1	1425.9	1267.4	1102.0	955.2	836.4	747.9	696.6	657.0	640.7	645.4
10°	1584.3	1463.1	1225.5	980.9	792.2	666.3	591.8	559.2	535.9	526.5	528.9
12.5°	1679.8	1516.7	1171.9	859.7	652.4	542.9	507.9	500.9	496.3	491.6	493.9
15°	1787.0	1563.3	1109.0	740.9	542.9	482.3	470.6	468.3	466.0	466.0	466.0
17.5°	1898.8	1605.3	1039.1	629.1	473.0	445.0	438.0	438.0	438.0	440.3	440.3
20°	2003.7	1637.9	957.6	528.9	433.4	410.1	405.4	405.4	407.7	410.1	410.1
22.5°	2106.2	1651.9	862.0	459.0	400.7	379.8	372.8	372.8	372.8	375.1	375.1
25°	2194.7	1651.9	766.5	414.7	372.8	351.8	342.5	340.2	342.5	342.5	342.5
27.5°	2269.3	1644.9	673.3	384.4	344.8	323.8	314.5	312.2	316.9	319.2	319.2
30°	2348.5	1635.6	598.8	356.5	321.5	300.6	291.2	291.2	298.2	307.5	307.5
32.5°	2425.4	1642.5	540.5	333.2	298.2	281.9	272.6	274.9	288.9	302.9	302.9
35°	2506.9	1656.5	505.6	316.9	281.9	265.6	258.6	265.6	279.6	293.6	293.6
37.5°	2588.5	1672.8	484.6	302.9	267.9	251.6	247.0	256.3	272.6	286.6	288.9
40°	2674.7	1686.8	461.3	288.9	258.6	240.0	237.6	247.0	267.9	281.9	284.2
42.5°	2781.8	1714.8	433.4	277.3	249.3	226.0	228.3	235.3	256.3	277.3	279.6
45°	2991.5	1803.3	405.4	265.6	237.6	219.0	214.3	219.0	242.3	265.6	270.3
47.5°	3385.3	2003.7	375.1	254.0	226.0	214.3	195.7	200.4	221.3	247.0	249.3
50°	4140.2	2430.0	358.8	242.3	216.7	198.0	177.1	177.1	193.4	216.7	216.7
52.5°	5316.7	3194.2	368.1	233.0	205.0	181.7	160.8	158.4	167.7	184.1	184.1
55°	6586.5	4033.0	403.1	223.7	191.0	172.4	149.1	137.5	144.5	153.8	153.8
57.5°	7593.0	4454.7	498.6	219.0	174.7	165.4	135.1	118.8	125.8	135.1	135.1
60°	8035.7	4207.7	605.8	223.7	163.1	153.8	121.2	104.8	116.5	125.8	128.1
62.5°	7676.9	3464.5	650.0	212.0	146.8	137.5	118.8	97.9	111.8	118.8	121.2
65°	6901.0	2632.7	507.9	184.1	135.1	118.8	107.2	93.2	104.8	111.8	111.8
66°	6532.9	2294.9	433.4	170.1	130.5	111.8	102.5	93.2	102.5	107.2	109.5
67.5°	5962.1	1810.3	321.5	149.1	121.2	102.5	95.5	88.5	97.9	102.5	102.5
70°	4662.0	1078.7	193.4	116.5	104.8	90.9	86.2	81.5	88.5	90.9	90.9
72.5°	2919.3	512.6	123.5	86.2	88.5	86.2	72.2	76.9	79.2	81.5	81.5
75°	1414.2	202.7	83.9	62.9	72.2	81.5	58.2	67.6	69.9	74.6	72.2
77.5°	393.7	97.9	53.6	46.6	62.9	62.9	44.3	53.6	62.9	79.2	72.2
80°	114.2	62.9	34.9	34.9	44.3	44.3	30.3	37.3	41.9	46.6	48.9
82.5°	79.2	41.9	23.3	25.6	25.6	28.0	18.6	18.6	23.3	23.3	25.6
85°	62.9	18.6	14.0	16.3	11.6	14.0	9.3	9.3	11.6	9.3	9.3
87.5°	25.6	9.3	9.3	9.3	7.0	7.0	4.7	2.3	2.3	2.3	2.3
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)