

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: P236966

Luminaire Tested: **ARCH-L-AF72-130-D-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P236966  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29623)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-AF72-130-D-U-T2R-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 4000K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14513.6 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B1 - U0 - G2

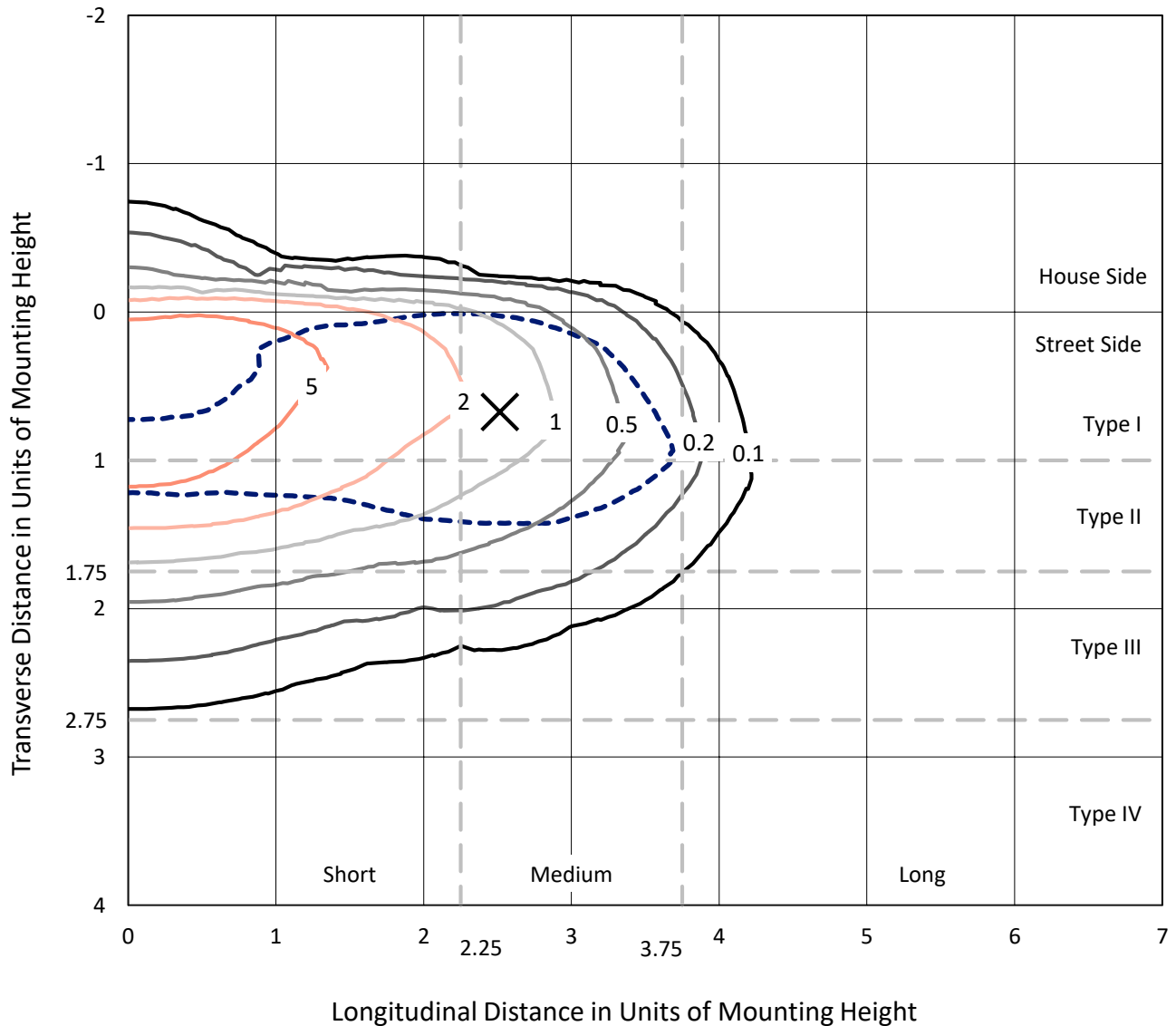
Input Watts (W): 133  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

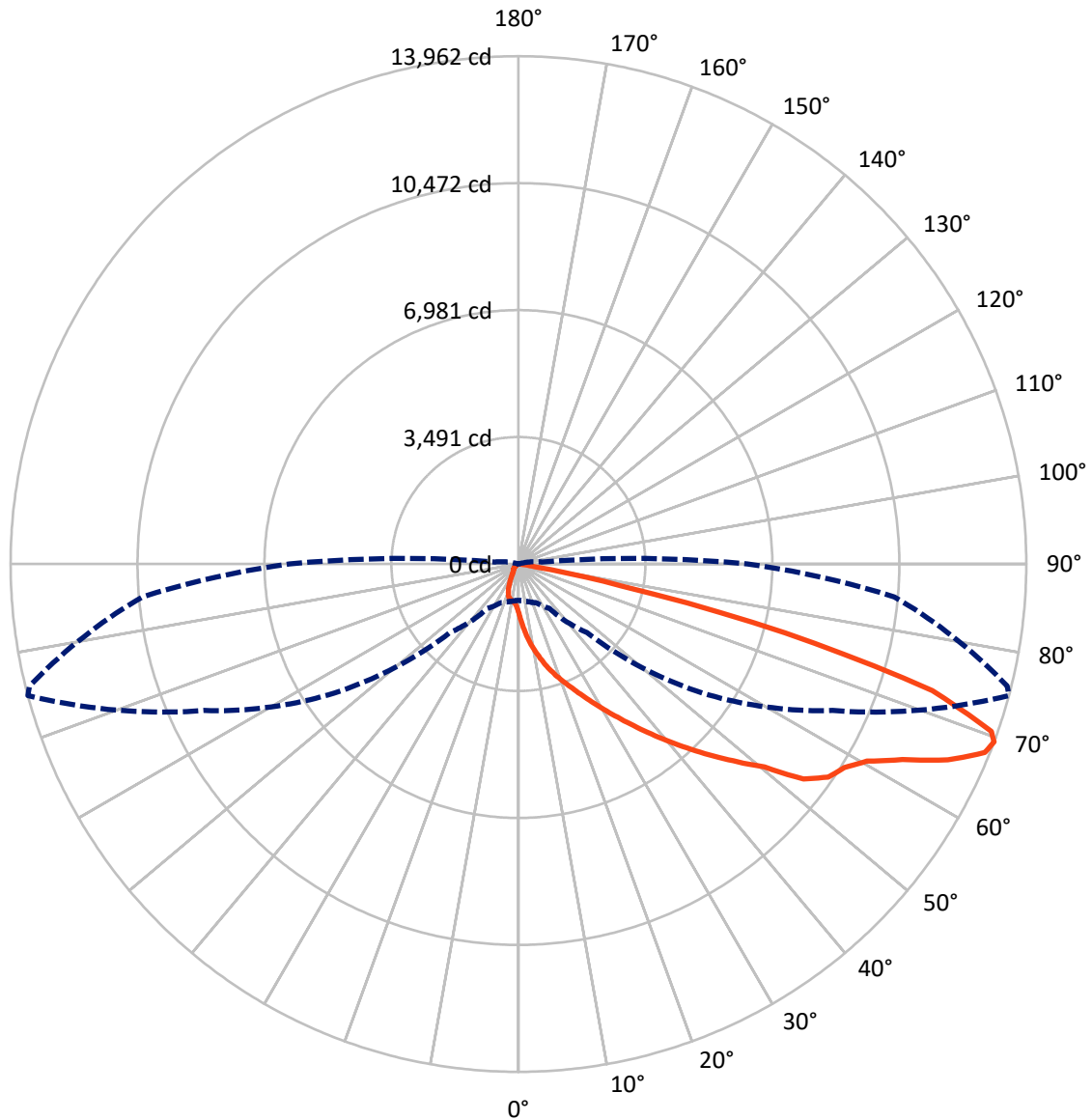
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.2 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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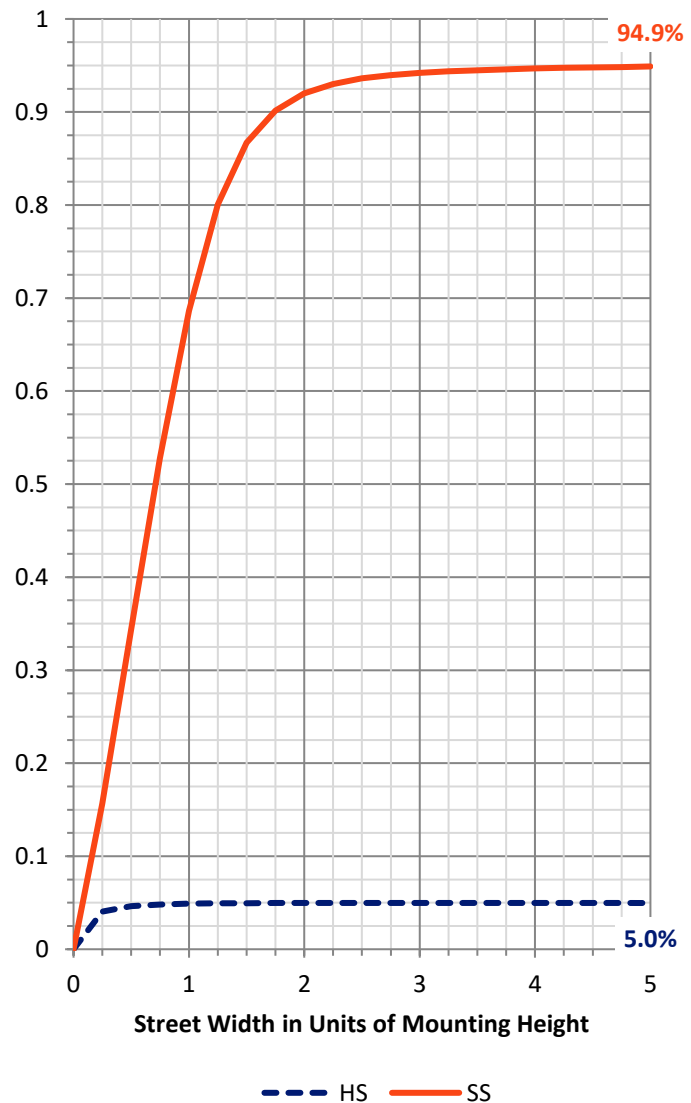
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	724.1	0.0	724.1
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	13789.5	0.0	13789.5
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	14513.6	0.0	14513.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.5	1.1
10°-20°	563.0	3.9
20°-30°	1074.8	7.4
30°-40°	1927.9	13.3
40°-50°	2953.8	20.4
50°-60°	3433.0	23.7
60°-70°	3040.0	20.9
70°-80°	1311.3	9.0
80°-90°	52.5	0.4
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°	14513.6	100.0
0°-180°	14513.6	100.0



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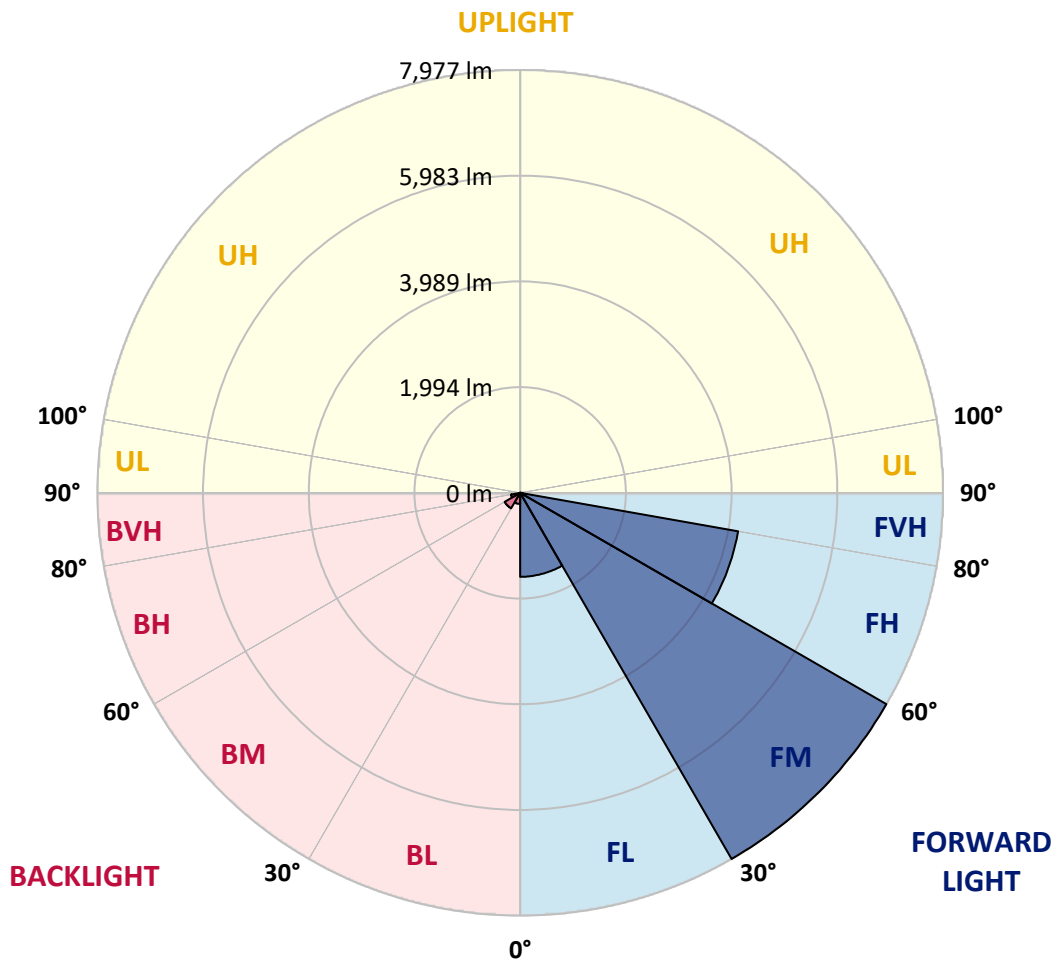
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1584.9	10.9			
FM	(30°-60°)	7977.1	55.0			
FH	(60°-80°)	4175.8	28.8			G2/5000
FVH	(80°-90°)	51.8	0.4			G1/100
BL	(0°-30°)	210.3	1.4	B1/500		
BM	(30°-60°)	337.6	2.3	B1/1000		
BH	(60°-80°)	175.4	1.2	B1/500		G1/500
BVH	(80°-90°)	0.8	0.0			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1350.5	1350.5	1350.5	1350.5	1350.5	1350.5	1350.5	1350.5	1350.5	1350.5	1350.5
2.5°	2224.7	2202.7	2180.8	2155.8	2099.4	2002.2	1880.0	1748.4	1585.5	1557.3	1425.7
5°	2701.0	2691.6	2669.6	2635.2	2572.5	2465.9	2328.1	2133.9	1861.3	1814.2	1535.3
7.5°	3036.2	3030.0	3011.2	2970.4	2914.1	2807.5	2663.4	2453.4	2136.9	2083.6	1673.2
10°	3337.1	3333.9	3318.2	3280.6	3224.2	3108.3	2954.8	2735.5	2400.1	2340.6	1833.0
12.5°	3609.7	3612.8	3606.5	3587.7	3547.0	3437.3	3261.9	3023.7	2653.9	2588.2	2024.2
15°	3769.5	3778.9	3803.9	3841.5	3854.1	3766.3	3584.6	3321.4	2914.1	2857.6	2243.5
17.5°	3716.2	3725.6	3803.9	3932.4	4054.6	4067.2	3904.2	3603.3	3170.9	3114.6	2459.7
20°	3587.7	3600.3	3681.7	3857.2	4095.3	4261.4	4195.6	3910.4	3415.4	3346.5	2666.5
22.5°	3731.8	3731.8	3756.9	3863.5	4079.6	4339.8	4427.4	4217.5	3666.1	3581.5	2873.3
25°	4226.9	4217.5	4164.2	4120.4	4189.3	4421.2	4603.0	4530.9	3960.6	3863.5	3092.7
27.5°	4853.6	4897.5	4797.2	4637.4	4480.7	4581.0	4759.6	4841.1	4286.5	4186.2	3318.2
30°	5555.4	5574.3	5455.2	5242.1	4966.4	4869.2	4944.4	5107.4	4640.5	4530.9	3553.2
32.5°	6188.4	6172.8	6072.5	5850.1	5508.5	5298.6	5182.6	5320.5	5026.0	4900.7	3794.5
35°	6749.3	6761.8	6639.7	6382.7	6047.4	5825.0	5549.2	5561.8	5458.4	5314.2	4073.4
37.5°	7253.7	7231.9	7116.0	6859.0	6555.1	6313.8	6022.3	5812.4	5931.5	5781.1	4386.7
40°	7664.3	7642.4	7520.1	7269.4	6984.3	6786.9	6558.1	6147.7	6429.7	6257.4	4722.0
42.5°	7990.2	7965.1	7861.7	7620.4	7344.7	7169.1	7059.5	6561.3	6962.4	6790.0	5098.0
45°	8150.0	8128.0	8065.4	7883.6	7642.4	7488.8	7542.0	7037.6	7532.6	7388.5	5511.7
47.5°	7961.9	7952.5	8024.6	7993.2	7855.3	7773.9	7958.8	7557.8	8131.1	7990.2	5987.8
50°	7391.6	7407.3	7617.3	7877.3	7943.1	8040.3	8300.3	8106.1	8773.4	8623.1	6536.2
52.5°	5984.8	6091.3	6724.3	7350.9	7836.6	8203.1	8701.4	8889.4	9820.0	9672.7	7391.6
55°	4468.2	4512.0	5201.4	6273.0	7407.3	8190.7	8999.1	9350.0	10337.0	10186.6	7617.3
57.5°	3543.8	3559.6	3901.0	4994.7	6523.7	7908.6	9155.7	9516.1	10562.6	10437.3	7952.5
60°	2782.4	2801.2	3048.8	3800.8	5279.8	7147.3	8930.2	9660.2	11004.4	10904.1	8538.5
62.5°	2165.2	2184.0	2334.4	2776.2	3960.6	5975.4	8475.8	9892.0	11844.1	11797.2	9497.3
65°	1676.3	1682.7	1786.1	1992.8	2798.1	4706.3	7921.2	10108.3	12978.5	12937.8	10274.3
67.5°	1237.7	1247.1	1319.2	1447.6	1889.4	3381.0	7012.5	9942.3	13833.9	13714.8	10556.3
69°	999.5	1008.9	1071.6	1175.1	1491.5	2663.4	6182.2	9531.8	13962.4	13849.5	10377.7
70°	855.4	861.6	924.3	1012.1	1272.1	2262.3	5524.1	9177.7	13793.2	13683.5	9970.4
72.5°	548.3	579.7	642.3	698.8	842.9	1497.8	3728.8	7611.0	11900.6	11712.6	7808.4
75°	303.9	313.3	426.2	495.1	560.9	974.5	2074.3	4747.1	7570.2	7438.7	4176.8
77.5°	250.6	257.0	300.8	376.0	376.0	545.2	783.4	1870.7	2879.6	2597.6	1131.2
80°	175.4	181.8	228.7	247.6	269.4	307.1	253.8	410.5	445.0	394.8	169.2
82.5°	122.2	128.5	156.7	203.7	216.3	144.1	94.0	122.2	128.5	128.5	65.8
85°	21.9	31.3	115.9	169.2	128.5	43.9	53.3	43.9	40.7	43.9	15.7
87.5°	0.0	0.0	72.1	81.4	68.9	18.8	21.9	15.7	9.4	12.6	6.2
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°	1350.5	1350.5	1350.5	1350.5	1350.5	1350.5	1350.5	1350.5	1350.5	1350.5	1350.5
2.5°	1359.9	1294.1	1181.3	1099.8	1030.9	977.6	955.6	921.2	896.1	908.7	893.0
5°	1397.5	1281.6	1099.8	983.9	902.4	833.5	777.0	733.3	698.8	692.4	686.2
7.5°	1457.0	1291.0	1052.8	908.7	786.4	680.0	592.2	526.4	476.3	476.3	457.5
10°	1538.5	1316.0	1024.6	833.5	651.7	507.6	419.9	357.2	332.2	329.0	322.7
12.5°	1651.2	1363.0	1002.7	736.3	507.6	369.7	316.5	294.5	285.1	282.0	278.9
15°	1804.8	1431.9	977.6	617.2	385.4	303.9	282.0	263.2	253.8	250.6	247.6
17.5°	1952.1	1494.6	924.3	495.1	313.3	275.8	250.6	235.0	222.5	219.3	219.3
20°	2090.0	1547.9	833.5	385.4	282.0	247.6	222.5	203.7	191.1	188.0	188.0
22.5°	2234.1	1591.7	720.7	313.3	257.0	219.3	194.3	175.4	163.0	159.8	156.7
25°	2387.7	1623.1	592.2	278.9	231.9	194.3	166.0	150.4	141.0	137.9	134.7
27.5°	2553.7	1635.6	470.0	253.8	203.7	169.2	144.1	128.5	122.2	119.1	119.1
30°	2704.1	1623.1	363.5	225.6	178.6	147.3	125.3	112.8	106.5	103.4	103.4
32.5°	2860.8	1591.7	291.4	200.5	156.7	125.3	106.5	97.2	94.0	90.8	90.8
35°	3026.8	1551.0	250.6	178.6	134.7	109.7	94.0	87.8	84.6	81.4	81.4
37.5°	3221.1	1500.9	228.7	159.8	119.1	97.2	81.4	78.4	75.2	75.2	75.2
40°	3440.5	1438.3	213.1	144.1	106.5	84.6	72.1	68.9	65.8	65.8	65.8
42.5°	3672.3	1366.2	197.4	128.5	94.0	72.1	62.7	62.7	59.5	59.5	56.4
45°	3932.4	1294.1	181.8	112.8	81.4	62.7	53.3	50.1	50.1	47.0	47.0
47.5°	4239.4	1228.3	166.0	100.2	72.1	53.3	47.0	43.9	40.7	37.6	37.6
50°	4671.9	1222.0	147.3	87.8	65.8	43.9	37.6	34.5	31.3	28.2	28.2
52.5°	5101.1	1165.7	125.3	72.1	53.3	37.6	28.2	25.1	21.9	21.9	18.8
55°	5198.3	1071.6	109.7	62.7	40.7	28.2	21.9	15.7	15.7	12.6	12.6
57.5°	5411.3	1027.8	94.0	50.1	31.3	21.9	12.6	9.4	9.4	9.4	9.4
60°	5831.2	1015.2	81.4	43.9	21.9	15.7	9.4	6.2	6.2	3.2	3.2
62.5°	6410.9	1002.7	68.9	37.6	15.7	9.4	6.2	3.2	0.0	0.0	0.0
65°	6730.5	918.1	56.4	28.2	12.6	9.4	3.2	0.0	0.0	0.0	0.0
67.5°	6645.9	758.3	50.1	18.8	9.4	6.2	3.2	0.0	0.0	0.0	0.0
69°	6291.9	639.2	40.7	15.7	9.4	6.2	3.2	0.0	0.0	0.0	0.0
70°	5865.7	551.5	37.6	12.6	6.2	3.2	3.2	0.0	0.0	0.0	0.0
72.5°	4164.2	288.3	25.1	9.4	6.2	3.2	0.0	0.0	0.0	0.0	0.0
75°	1945.9	128.5	15.7	6.2	3.2	3.2	0.0	0.0	0.0	0.0	0.0
77.5°	429.2	59.5	9.4	6.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	81.4	21.9	6.2	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	28.2	9.4	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)