

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: P236979

Luminaire Tested: **ARCH-L-AF72-260-D-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P236979  
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-AF72-260-D-U-T2R-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 4000K, 1110mA 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: 23599.5 lumens  
Efficiency: N/A  
Efficacy: 90.4 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 - G3

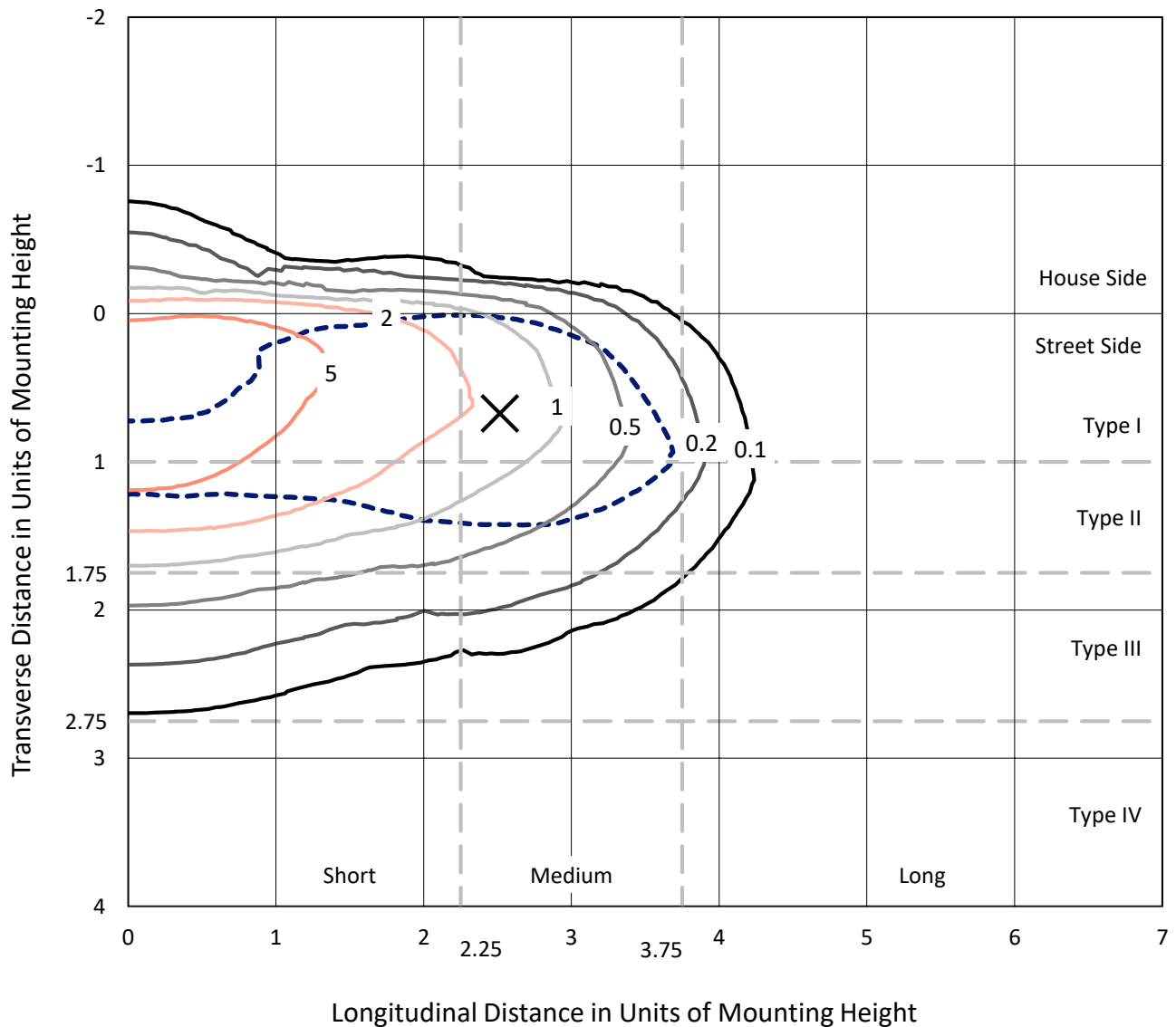
Input Watts (W): 261  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

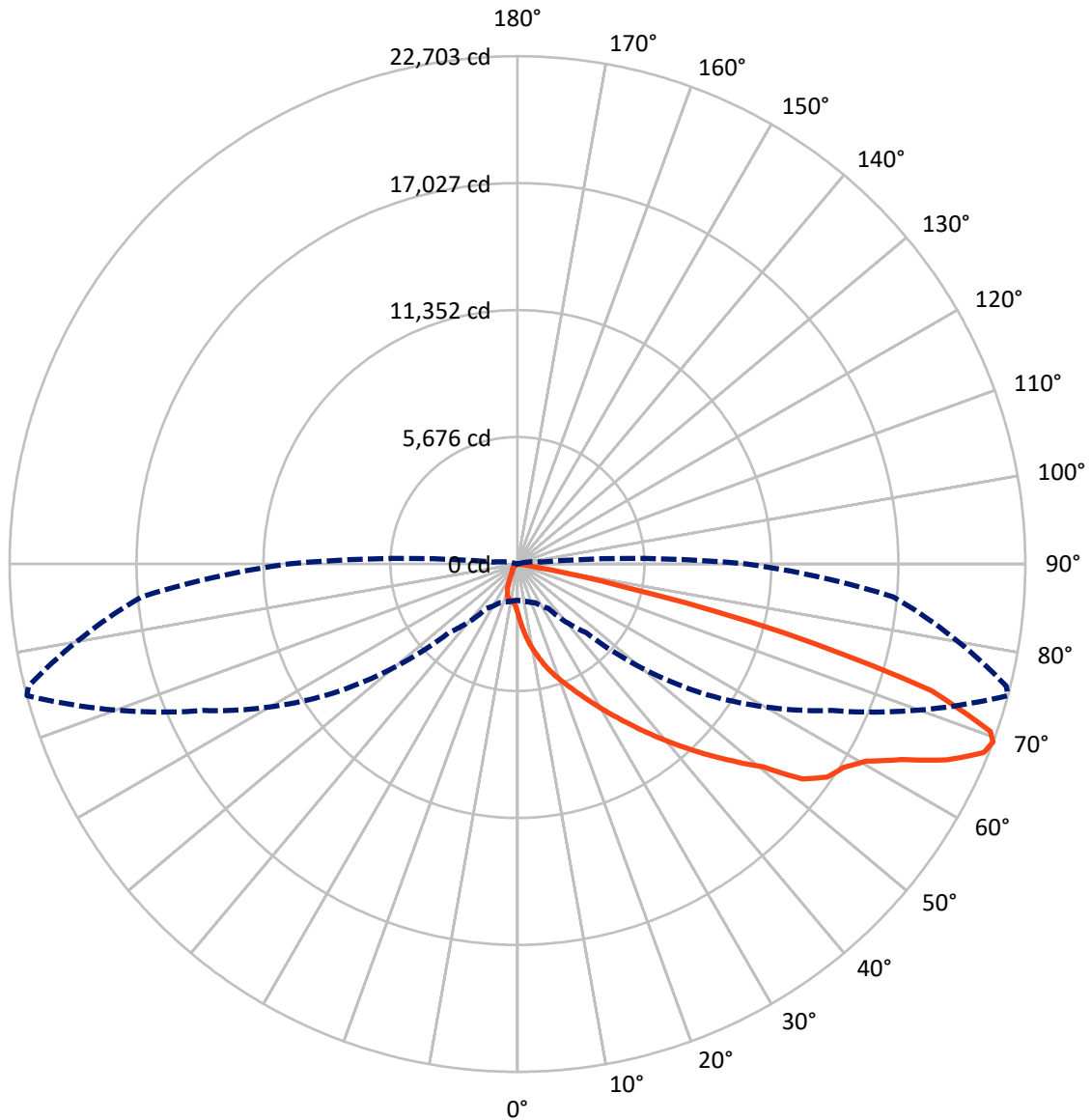
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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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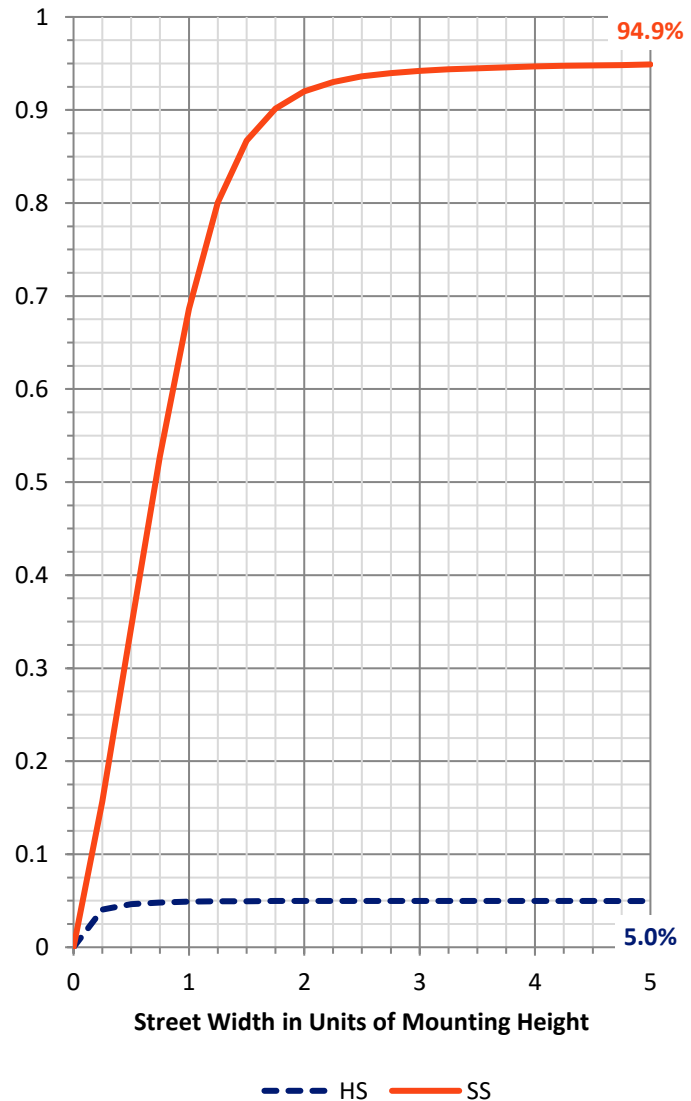
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1177.4	0.0	1177.4
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	22422.0	0.0	22422.0
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	23599.5	0.0	23599.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.1	1.1
10°-20°	915.4	3.9
20°-30°	1747.6	7.4
30°-40°	3134.9	13.3
40°-50°	4802.9	20.4
50°-60°	5582.1	23.7
60°-70°	4943.0	20.9
70°-80°	2132.1	9.0
80°-90°	85.4	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°	23599.5	100.0
0°-180°	23599.5	100.0

**Coefficient of Utilization**



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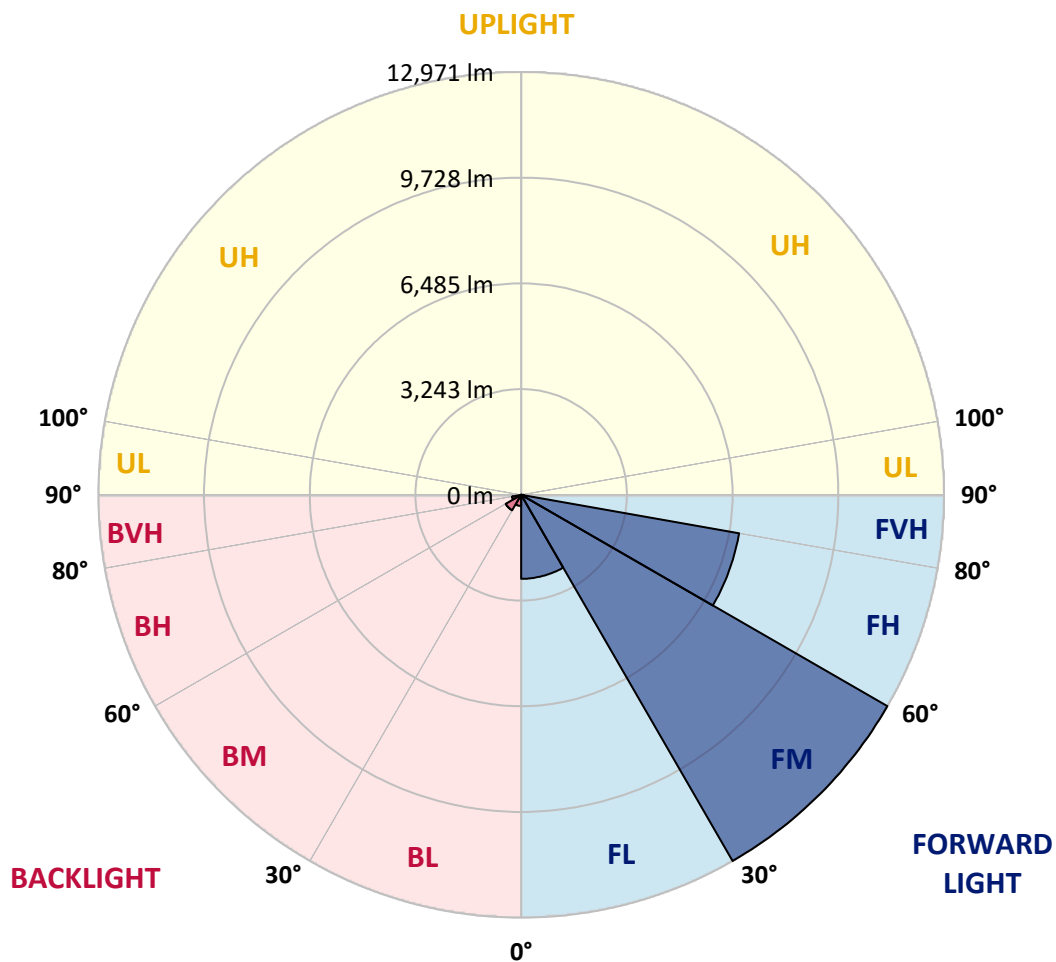
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2577.1	10.9			
FM	(30°-60°)	12970.9	55.0			
FH	(60°-80°)	6789.9	28.8			G3/7500
FVH	(80°-90°)	84.2	0.4			G1/100
BL	(0°-30°)	342.0	1.4	B1/500		
BM	(30°-60°)	549.0	2.3	B1/1000		
BH	(60°-80°)	285.3	1.2	B1/500		G1/500
BVH	(80°-90°)	1.2	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-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2196.0	2196.0	2196.0	2196.0	2196.0	2196.0	2196.0	2196.0	2196.0	2196.0	2196.0
2.5°	3617.5	3581.8	3546.1	3505.3	3413.6	3255.6	3057.0	2843.0	2578.0	2532.2	2318.2
5°	4391.8	4376.6	4340.9	4284.8	4182.9	4009.8	3785.5	3469.6	3026.4	2950.0	2496.5
7.5°	4937.0	4926.8	4896.3	4830.0	4738.3	4565.1	4330.7	3989.3	3474.8	3388.1	2720.7
10°	5426.1	5421.0	5395.6	5334.4	5242.7	5054.2	4804.5	4447.9	3902.8	3805.9	2980.6
12.5°	5869.4	5874.5	5864.3	5833.7	5767.5	5589.2	5303.8	4916.6	4315.4	4208.4	3291.3
15°	6129.2	6144.5	6185.3	6246.4	6266.8	6124.1	5828.6	5400.7	4738.3	4646.5	3647.9
17.5°	6042.6	6057.9	6185.3	6394.2	6592.8	6613.3	6348.3	5859.2	5156.1	5064.4	3999.5
20°	5833.7	5854.1	5986.5	6271.9	6659.1	6929.2	6822.2	6358.5	5553.5	5441.4	4335.8
22.5°	6068.0	6068.0	6108.9	6282.0	6633.6	7056.5	7199.1	6857.8	5961.0	5823.6	4672.0
25°	6873.1	6857.8	6771.2	6699.8	6811.9	7189.0	7484.5	7367.3	6440.0	6282.0	5028.7
27.5°	7892.1	7963.4	7800.4	7540.5	7285.8	7448.8	7739.2	7871.7	6969.9	6806.8	5395.6
30°	9033.4	9064.0	8870.3	8523.8	8075.5	7917.5	8039.8	8304.7	7545.6	7367.3	5777.6
32.5°	10062.6	10037.1	9874.0	9512.3	8957.0	8615.6	8427.1	8651.2	8172.3	7968.5	6170.0
35°	10974.5	10994.9	10796.2	10378.4	9833.2	9471.5	9023.1	9043.5	8875.4	8641.1	6623.4
37.5°	11794.8	11759.1	11570.6	11152.8	10658.6	10266.3	9792.5	9451.1	9644.7	9400.2	7132.9
40°	12462.2	12426.6	12227.8	11820.3	11356.6	11035.7	10663.8	9996.3	10454.9	10174.6	7678.1
42.5°	12992.1	12951.4	12783.2	12390.9	11942.5	11657.2	11478.9	10668.9	11321.0	11040.7	8289.5
45°	13251.9	13216.3	13114.4	12818.9	12426.6	12176.9	12263.5	11443.2	12248.3	12013.8	8962.0
47.5°	12946.3	12931.0	13048.1	12997.2	12773.1	12640.6	12941.1	12289.0	13221.4	12992.1	9736.4
50°	12019.0	12044.4	12385.8	12808.7	12915.7	13073.6	13496.5	13180.6	14265.9	14021.3	10628.0
52.5°	9731.3	9904.6	10933.7	11952.8	12742.5	13338.6	14148.6	14454.4	15967.5	15728.1	12019.0
55°	7265.4	7336.7	8457.7	10200.0	12044.4	13318.2	14632.7	15203.3	16808.2	16563.7	12385.8
57.5°	5762.4	5787.9	6343.2	8121.3	10607.7	12859.6	14887.4	15473.4	17175.0	16971.3	12931.0
60°	4524.3	4554.9	4957.4	6180.2	8585.0	11621.5	14520.6	15707.7	17893.5	17730.4	13883.7
62.5°	3520.6	3551.2	3795.8	4514.1	6440.0	9716.1	13781.8	16084.8	19258.9	19182.5	15442.8
65°	2725.8	2736.0	2904.2	3240.4	4549.8	7652.6	12880.1	16436.3	21103.3	21037.1	16706.3
67.5°	2012.6	2027.8	2144.9	2353.9	3072.2	5497.4	11402.5	16166.3	22494.2	22300.6	17164.9
69°	1625.3	1640.6	1742.5	1910.6	2425.2	4330.7	10052.3	15498.8	22703.1	22519.6	16874.5
70°	1390.9	1401.1	1503.0	1645.6	2068.5	3678.5	8982.4	14923.1	22428.0	22249.6	16212.1
72.5°	891.6	942.5	1044.4	1136.2	1370.5	2435.3	6063.0	12375.7	19350.6	19044.9	12696.6
75°	494.2	509.5	692.9	805.0	912.0	1584.6	3372.9	7718.9	12309.4	12095.4	6791.6
77.5°	407.6	417.8	489.1	611.4	611.4	886.5	1273.8	3041.6	4682.3	4223.7	1839.3
80°	285.3	295.5	371.9	402.5	438.1	499.3	412.7	667.5	723.5	642.0	275.2
82.5°	198.7	208.9	254.7	331.1	351.6	234.4	152.8	198.7	208.9	208.9	107.0
85°	35.7	50.9	188.5	275.2	208.9	71.3	86.6	71.3	66.2	71.3	25.5
87.5°	0.0	0.0	117.2	132.5	112.1	30.6	35.7	25.5	15.2	20.4	10.2
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°	2196.0	2196.0	2196.0	2196.0	2196.0	2196.0	2196.0	2196.0	2196.0	2196.0	2196.0
2.5°	2211.2	2104.2	1920.8	1788.3	1676.2	1589.7	1554.0	1497.9	1457.2	1477.6	1452.1
5°	2272.4	2083.9	1788.3	1599.8	1467.3	1355.2	1263.5	1192.2	1136.2	1126.0	1115.8
7.5°	2369.2	2099.1	1711.9	1477.6	1278.8	1105.6	962.9	855.9	774.5	774.5	743.9
10°	2501.6	2139.9	1666.1	1355.2	1059.8	825.4	682.7	580.8	540.0	535.0	524.8
12.5°	2685.0	2216.3	1630.4	1197.3	825.4	601.2	514.5	478.9	463.6	458.6	453.5
15°	2934.6	2328.4	1589.7	1003.7	626.7	494.2	458.6	428.0	412.7	407.6	402.5
17.5°	3174.1	2430.3	1503.0	805.0	509.5	448.4	407.6	382.1	361.7	356.6	356.6
20°	3398.3	2516.9	1355.2	626.7	458.6	402.5	361.7	331.1	310.8	305.7	305.7
22.5°	3632.7	2588.3	1171.8	509.5	417.8	356.6	315.9	285.3	264.9	259.8	254.7
25°	3882.3	2639.2	962.9	453.5	377.1	315.9	270.1	244.6	229.2	224.1	219.1
27.5°	4152.4	2659.6	764.2	412.7	331.1	275.2	234.4	208.9	198.7	193.6	193.6
30°	4396.9	2639.2	591.1	366.8	290.4	239.5	203.8	183.4	173.2	168.2	168.2
32.5°	4651.7	2588.3	473.8	326.1	254.7	203.8	173.2	157.9	152.8	147.7	147.7
35°	4921.7	2522.0	407.6	290.4	219.1	178.3	152.8	142.7	137.6	132.5	132.5
37.5°	5237.6	2440.5	371.9	259.8	193.6	157.9	132.5	127.4	122.2	122.2	122.2
40°	5594.2	2338.6	346.5	234.4	173.2	137.6	117.2	112.1	107.0	107.0	107.0
42.5°	5971.3	2221.4	321.0	208.9	152.8	117.2	101.9	101.9	96.8	96.8	91.8
45°	6394.2	2104.2	295.5	183.4	132.5	101.9	86.6	81.5	81.5	76.4	76.4
47.5°	6893.5	1997.2	270.1	163.1	117.2	86.6	76.4	71.3	66.2	61.2	61.2
50°	7596.5	1987.0	239.5	142.7	107.0	71.3	61.2	56.1	50.9	45.8	45.8
52.5°	8294.6	1895.3	203.8	117.2	86.6	61.2	45.8	40.7	35.7	35.7	30.6
55°	8452.5	1742.5	178.3	101.9	66.2	45.8	35.7	25.5	25.5	20.4	20.4
57.5°	8799.0	1671.1	152.8	81.5	50.9	35.7	20.4	15.2	15.2	15.2	15.2
60°	9481.7	1650.7	132.5	71.3	35.7	25.5	15.2	10.2	10.2	5.1	5.1
62.5°	10424.3	1630.4	112.1	61.2	25.5	15.2	10.2	5.1	0.0	0.0	0.0
65°	10943.9	1492.8	91.8	45.8	20.4	15.2	5.1	0.0	0.0	0.0	0.0
67.5°	10806.4	1233.0	81.5	30.6	15.2	10.2	5.1	0.0	0.0	0.0	0.0
69°	10230.6	1039.4	66.2	25.5	15.2	10.2	5.1	0.0	0.0	0.0	0.0
70°	9537.8	896.7	61.2	20.4	10.2	5.1	5.1	0.0	0.0	0.0	0.0
72.5°	6771.2	468.7	40.7	15.2	10.2	5.1	0.0	0.0	0.0	0.0	0.0
75°	3164.0	208.9	25.5	10.2	5.1	5.1	0.0	0.0	0.0	0.0	0.0
77.5°	698.0	96.8	15.2	10.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	132.5	35.7	10.2	5.1	5.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	45.8	15.2	5.1	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	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)