

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: P1211259

Luminaire Tested: **ARCH4-220-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-220-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 870mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31307 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 221.8
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

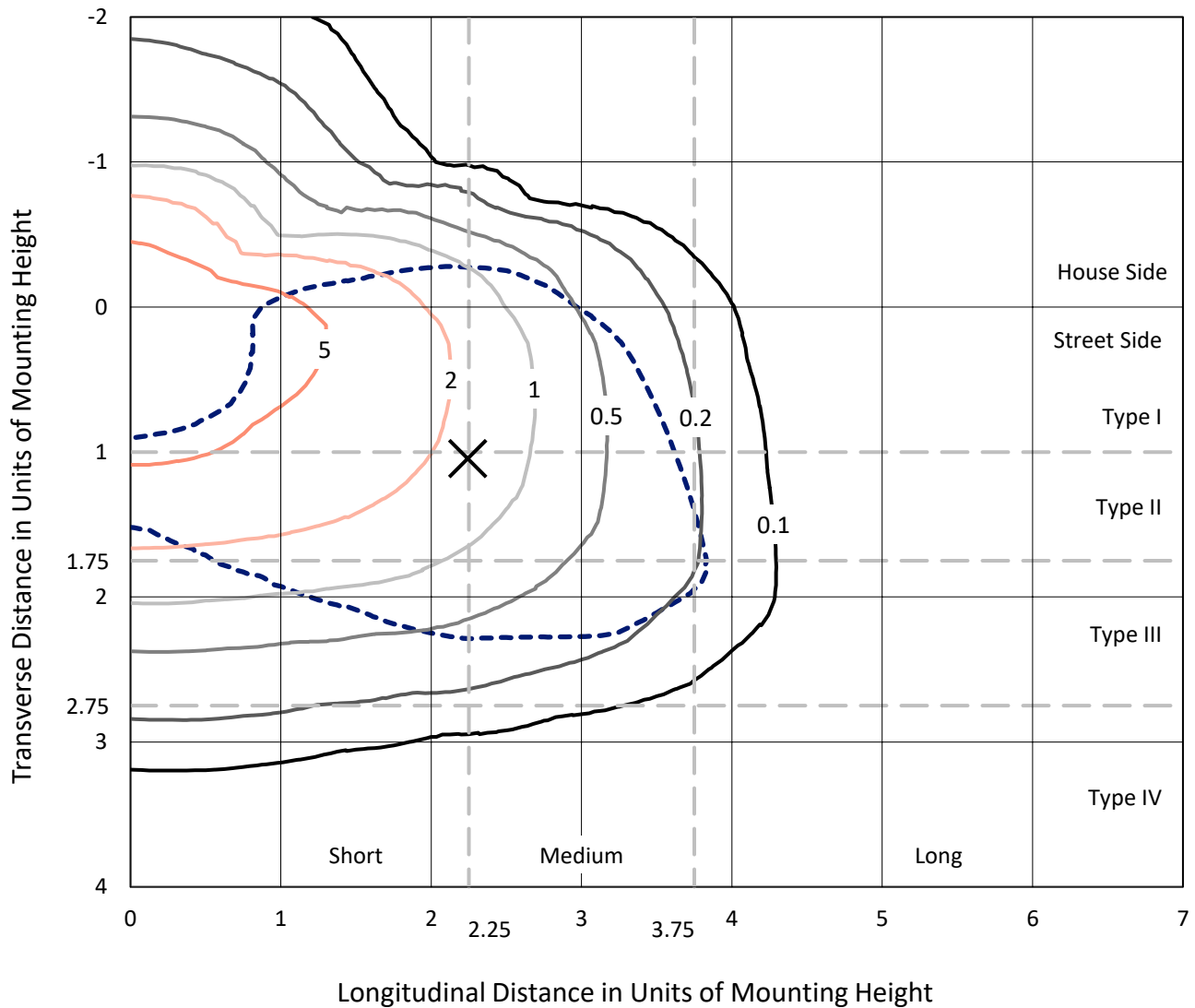


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

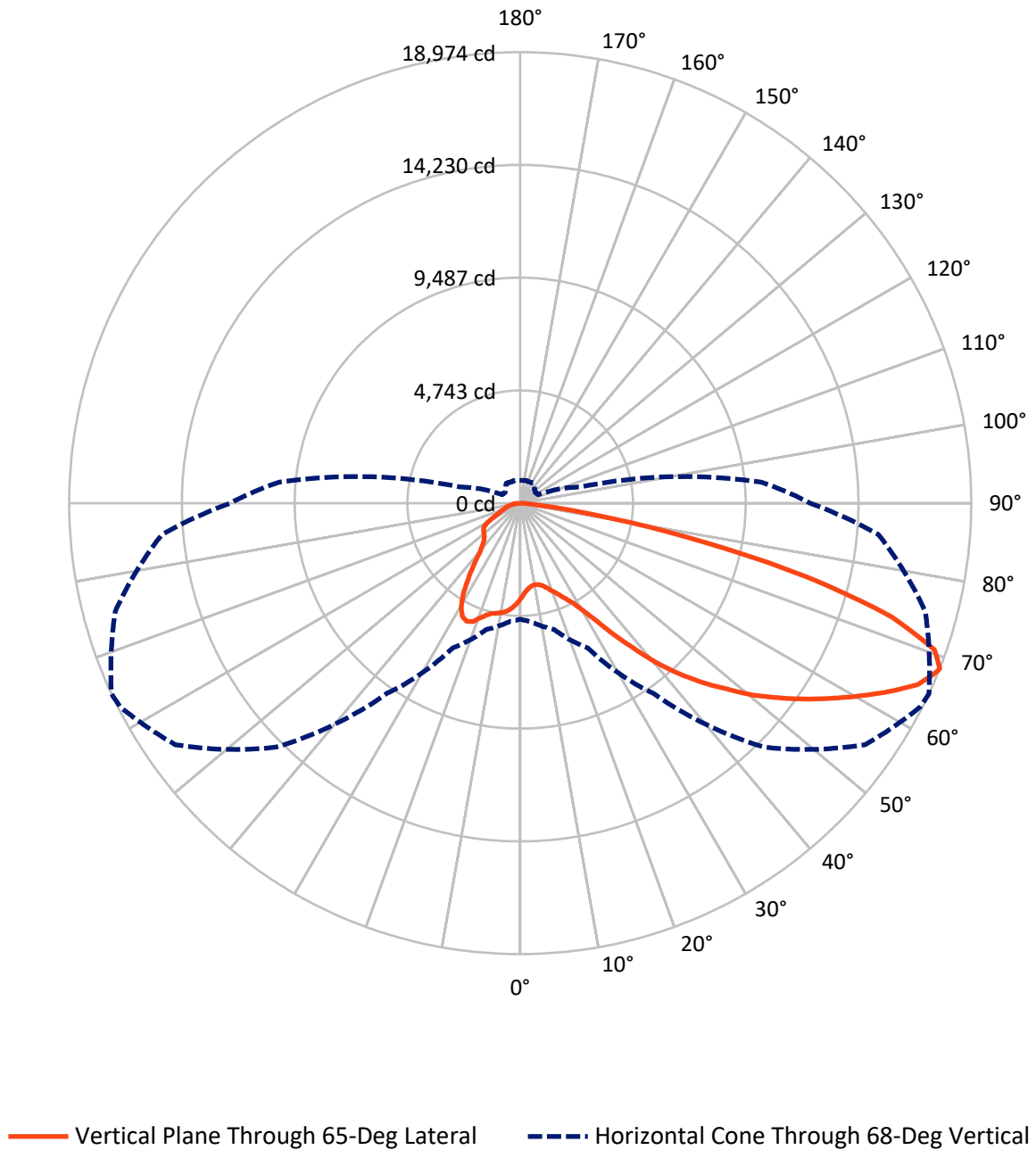


Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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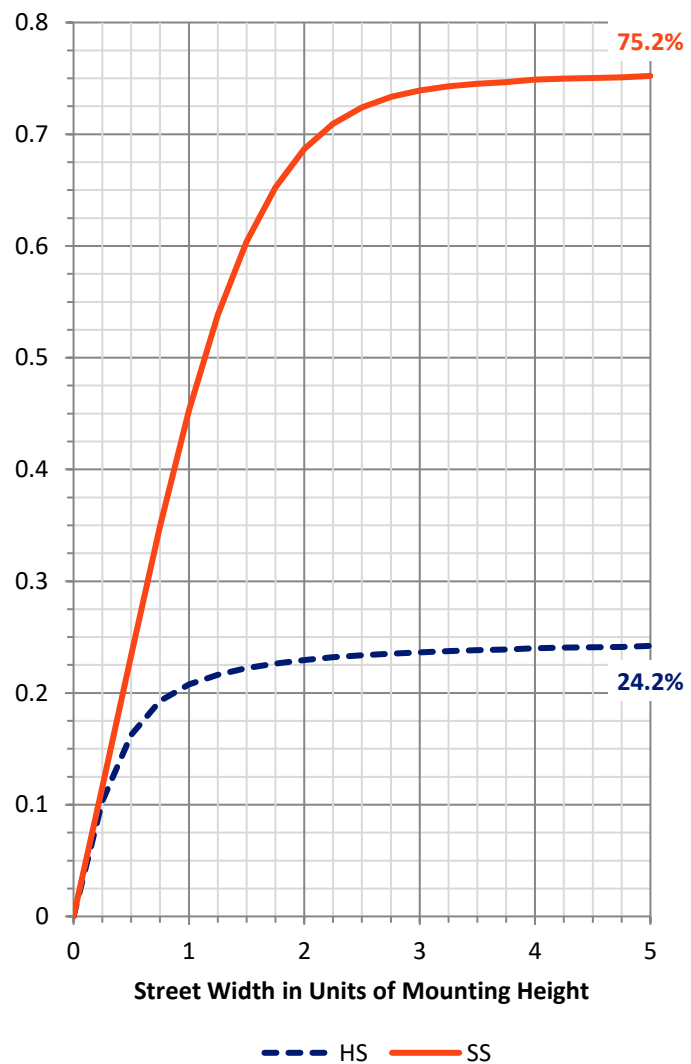
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7675.6	0.0	7675.6
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	23631.4	0.0	23631.4
	% Fixture	75.5	0.0	75.5
Total	Lumens	31307.0	0.0	31307.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.4	1.2
10°-20°	1244.9	4.0
20°-30°	2253.2	7.2
30°-40°	3544.5	11.3
40°-50°	5279.1	16.9
50°-60°	6925.1	22.1
60°-70°	7573.1	24.2
70°-80°	3747.4	12.0
80°-90°	357.5	1.1
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°	31307.0	100.0
0°-180°	31307.0	100.0

Coefficient of Utilization



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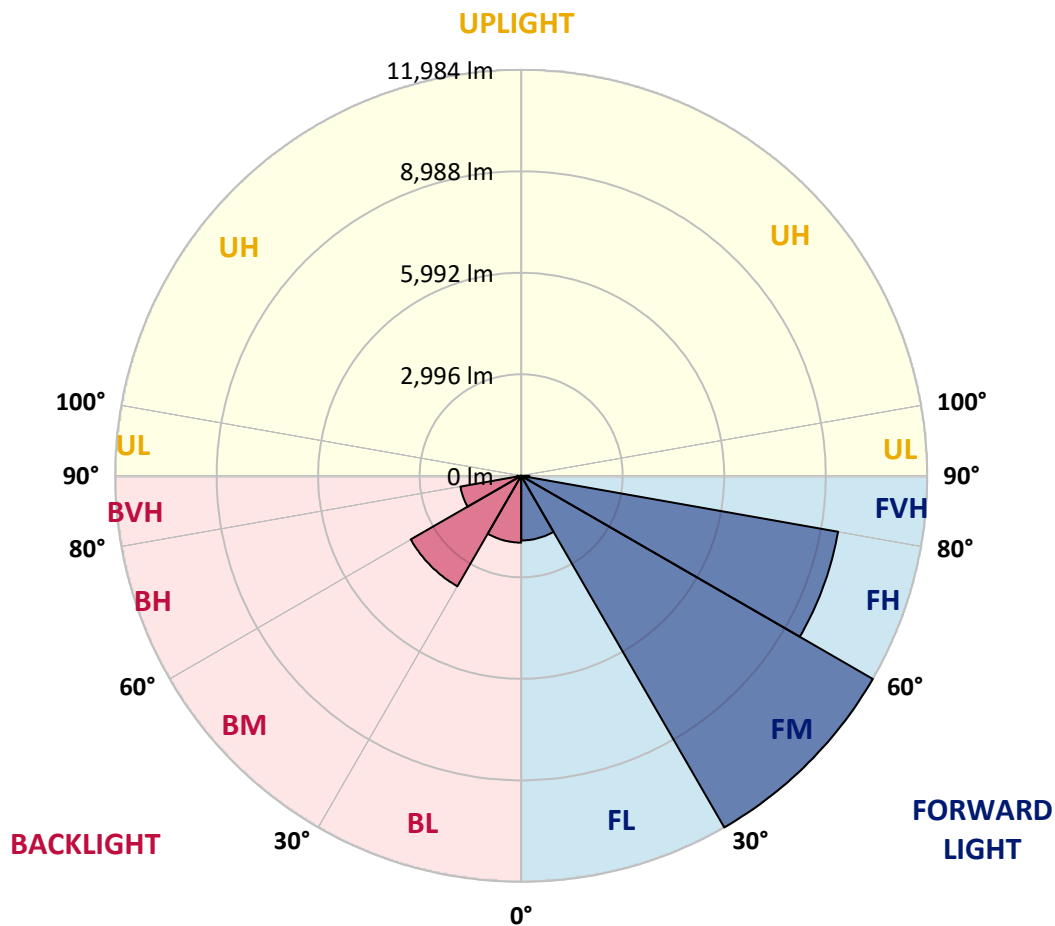
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1908.5	6.1			
FM	(30°-60°)	11983.9	38.3			
FH	(60°-80°)	9498.6	30.3			G4/12000
FVH	(80°-90°)	240.4	0.8			G3/500
BL	(0°-30°)	1971.9	6.3	B3/2500		
BM	(30°-60°)	3764.8	12.0	B3/5000		
BH	(60°-80°)	1821.8	5.8	B3/2500		G3/2500
BVH	(80°-90°)	117.0	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	4000.7	4000.7	4000.7	4000.7	4000.7	4000.7	4000.7	4000.7	4000.7	4000.7	4000.7
2.5°	3492.0	3483.9	3504.1	3524.3	3568.7	3621.2	3693.8	3754.4	3762.5	3875.5	3964.3
5°	3286.1	3274.0	3294.2	3318.4	3338.6	3403.2	3479.9	3568.7	3605.0	3770.5	3960.3
7.5°	3306.3	3302.3	3310.3	3302.3	3302.3	3330.5	3383.0	3471.8	3512.2	3710.0	3980.5
10°	3423.4	3431.4	3435.5	3411.3	3387.0	3374.9	3391.1	3451.6	3479.9	3714.0	4069.3
12.5°	3617.1	3629.3	3633.3	3588.9	3556.6	3504.1	3475.8	3500.1	3520.3	3754.4	4194.4
15°	3879.5	3887.6	3859.4	3831.1	3750.4	3685.8	3617.1	3597.0	3605.0	3839.2	4335.7
17.5°	4186.4	4174.2	4174.2	4105.6	4000.7	3899.7	3786.7	3770.5	3770.5	3976.4	4537.6
20°	4521.4	4533.5	4497.2	4404.4	4299.4	4141.9	4028.9	3956.2	3964.3	4133.9	4783.8
22.5°	5005.9	5026.0	4929.2	4795.9	4634.5	4452.8	4291.3	4174.2	4178.3	4339.8	5038.2
25°	5526.6	5534.7	5474.2	5296.5	5078.5	4820.2	4606.2	4456.8	4452.8	4569.9	5365.2
27.5°	6059.5	6095.9	5974.7	5805.2	5603.3	5280.4	4997.8	4795.9	4763.6	4921.1	5772.9
30°	6608.5	6653.0	6535.9	6370.4	6120.1	5845.6	5510.5	5276.3	5256.2	5466.1	6317.9
32.5°	7161.6	7173.7	7080.9	6943.6	6717.5	6459.2	6188.7	5930.3	5910.1	6253.3	7024.4
35°	7613.8	7650.1	7585.5	7553.2	7387.7	7149.5	6887.1	6737.7	6790.2	7230.2	7940.8
37.5°	8158.8	8195.1	8122.4	8114.3	8061.9	7856.0	7674.3	7686.4	7738.9	8336.4	8905.6
40°	8946.0	8986.3	8800.6	8719.9	8719.9	8518.0	8457.5	8744.1	8812.7	9426.4	9910.8
42.5°	9612.1	9676.7	9567.7	9515.2	9357.7	9216.4	9289.1	9692.8	9809.9	10467.9	10786.8
45°	9935.0	9983.5	10112.7	10266.1	10112.7	9866.4	10140.9	10597.1	10762.6	11428.7	11662.9
47.5°	10108.6	10153.0	10302.4	10714.2	10819.1	10613.2	11000.8	11570.0	11683.0	12381.4	12498.5
50°	10132.8	10274.1	10467.9	10879.7	11360.1	11388.3	11864.7	12559.1	12692.3	13318.0	13233.2
52.5°	9935.0	9991.5	10391.2	11085.6	11618.4	12102.9	12805.3	13507.8	13604.6	14198.1	13883.2
55°	9612.1	9692.8	10092.5	11037.1	11868.7	12781.1	13762.1	14440.3	14549.3	15053.9	14484.7
57.5°	9321.4	9361.8	9789.7	10895.8	12119.0	13459.3	14613.9	15413.2	15485.9	15804.8	14928.8
60°	8998.4	9042.9	9470.8	10593.1	12304.7	13972.0	15502.0	16394.2	16458.8	16596.1	15445.5
62.5°	8162.8	8279.9	8816.8	10092.5	12256.3	14557.4	16450.7	17363.1	17443.8	17294.5	15853.2
65°	6628.7	6794.2	7452.3	8958.1	11804.1	14936.9	17225.8	18255.3	18392.5	17819.3	15962.2
67.5°	5147.2	5264.2	5793.1	7109.1	10217.6	14747.1	17726.4	18868.9	18909.2	17734.5	15356.7
68°	4880.7	4997.8	5502.4	6721.6	9777.6	14521.0	17714.3	18885.0	18973.8	17641.6	15122.6
70°	3734.2	3867.4	4347.8	5324.8	7880.2	13083.9	16975.5	18497.5	18485.4	16519.4	13669.2
72.5°	2333.4	2410.1	2741.1	3358.8	5211.7	9955.2	14408.0	16313.5	16345.8	13467.4	10484.1
75°	1481.6	1481.6	1465.4	1626.9	2672.5	5672.0	10710.1	12559.1	12583.3	9430.4	6608.5
77.5°	1287.8	1251.5	1077.9	912.4	1065.8	2204.2	6338.1	8110.3	7977.1	5078.5	3136.7
80°	1085.9	1025.4	884.1	734.7	686.3	690.3	2434.3	4117.7	3940.1	1828.8	1041.5
82.5°	783.2	730.7	666.1	577.3	528.8	411.8	508.7	1190.9	1162.7	528.8	339.1
85°	423.9	383.5	375.4	379.5	318.9	254.3	214.0	262.4	262.4	230.1	193.8
87.5°	149.4	109.0	129.2	145.3	125.1	105.0	84.8	100.9	105.0	100.9	92.9
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°	4000.7	4000.7	4000.7	4000.7	4000.7	4000.7	4000.7	4000.7	4000.7	4000.7	4000.7
2.5°	4016.8	4057.2	4154.1	4238.8	4299.4	4351.9	4380.1	4392.2	4420.5	4424.5	4416.5
5°	4049.1	4154.1	4299.4	4424.5	4493.2	4521.4	4529.5	4533.5	4521.4	4529.5	4521.4
7.5°	4133.9	4267.1	4473.0	4582.0	4594.1	4549.7	4553.7	4537.6	4553.7	4569.9	4569.9
10°	4263.1	4432.6	4626.4	4666.8	4614.3	4590.1	4638.5	4735.4	4767.7	4812.1	4812.1
12.5°	4432.6	4634.5	4771.7	4735.4	4686.9	4767.7	4909.0	5005.9	5038.2	5054.3	5042.2
15°	4626.4	4844.4	4913.0	4791.9	4880.7	5054.3	5102.8	5046.2	4965.5	4929.2	4949.3
17.5°	4872.6	5054.3	5013.9	4933.2	5135.0	5159.3	5001.8	4820.2	4691.0	4642.5	4674.8
20°	5131.0	5288.5	5102.8	5139.1	5264.2	5005.9	4707.1	4473.0	4359.9	4339.8	4372.1
22.5°	5405.5	5506.5	5191.6	5377.3	5191.6	4666.8	4307.5	4186.4	4158.1	4190.4	4218.7
25°	5716.4	5704.3	5345.0	5449.9	4921.1	4250.9	4037.0	4028.9	4028.9	4049.1	4089.5
27.5°	6067.6	5877.9	5498.4	5353.0	4452.8	3907.8	3867.4	3871.5	3859.4	3863.4	3883.6
30°	6475.3	6112.0	5667.9	5034.1	3928.0	3649.4	3633.3	3621.2	3592.9	3584.8	3592.9
32.5°	6988.0	6358.3	5841.5	4509.3	3467.8	3383.0	3374.9	3310.3	3241.7	3233.6	3261.9
35°	7638.0	6806.4	5930.3	3851.3	3088.3	3084.3	3056.0	2955.1	2866.3	2866.3	2846.1
37.5°	8380.8	7383.6	5966.7	3209.4	2773.4	2793.6	2712.9	2583.7	2515.0	2474.7	2486.8
40°	9139.7	8041.7	5962.6	2648.3	2498.9	2502.9	2442.4	2284.9	2115.4	2014.5	2038.7
42.5°	9870.4	8639.2	5857.7	2349.5	2276.9	2264.7	2216.3	2002.3	1861.1	1780.3	1784.3
45°	10455.8	9256.8	5696.2	2171.9	2075.0	2095.2	1986.2	1857.0	1727.8	1655.2	1651.1
47.5°	11041.2	9725.1	5437.8	2062.9	1925.6	1889.3	1844.9	1756.1	1659.2	1578.5	1582.5
50°	11574.0	10124.8	5195.6	1990.2	1788.4	1695.5	1703.6	1651.1	1566.4	1493.7	1489.6
52.5°	11949.5	10387.2	5062.4	1949.9	1622.9	1521.9	1550.2	1521.9	1441.2	1388.7	1384.7
55°	12324.9	10589.0	5106.8	1897.4	1441.2	1360.5	1408.9	1400.8	1356.4	1340.3	1344.3
57.5°	12627.7	10742.4	5264.2	1800.5	1267.6	1219.2	1299.9	1275.7	1243.4	1247.4	1247.4
60°	12922.4	10940.2	5449.9	1578.5	1118.2	1122.3	1199.0	1154.6	1134.4	1170.7	1174.8
62.5°	13229.2	11154.2	5296.5	1255.5	989.1	1017.3	1106.1	1069.8	1077.9	1130.4	1146.5
65°	13192.9	11134.0	4315.5	1029.4	876.0	932.5	1065.8	1053.7	1057.7	1077.9	1085.9
67.5°	12450.1	10423.5	2967.2	876.0	795.3	863.9	1033.5	985.0	989.1	977.0	981.0
68°	12199.8	10173.2	2616.0	851.8	779.1	847.8	1017.3	972.9	977.0	964.8	960.8
70°	10835.3	8711.8	1655.2	750.9	722.6	803.4	936.6	920.4	916.4	908.3	908.3
72.5°	8259.7	6430.9	872.0	650.0	658.0	734.7	835.7	868.0	847.8	851.8	876.0
75°	5470.1	3867.4	605.5	557.1	577.3	629.8	742.8	807.4	787.2	799.3	787.2
77.5°	2894.5	2083.1	484.4	472.3	472.3	508.7	613.6	714.5	714.5	706.5	694.4
80°	948.7	734.7	387.6	371.4	379.5	399.7	492.5	585.4	597.5	581.3	573.3
82.5°	318.9	339.1	290.7	270.5	278.6	294.7	371.4	448.1	452.1	419.8	411.8
85°	197.8	226.1	181.7	177.6	177.6	181.7	226.1	246.3	226.1	201.8	209.9
87.5°	92.9	113.0	84.8	72.7	60.6	52.5	40.4	16.1	16.1	8.1	8.1
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)