

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: P1211321

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

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
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
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 940mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33417 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

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

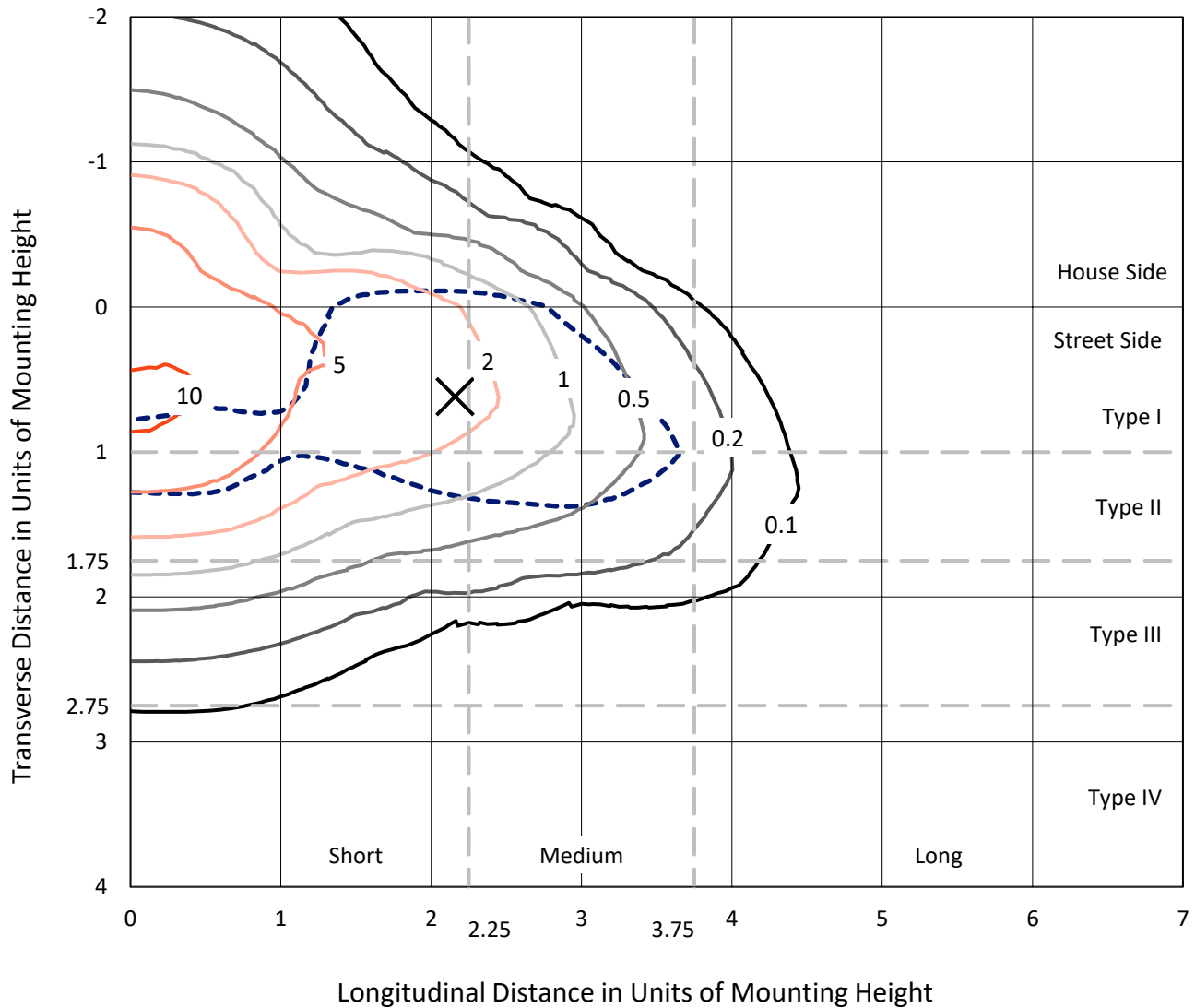


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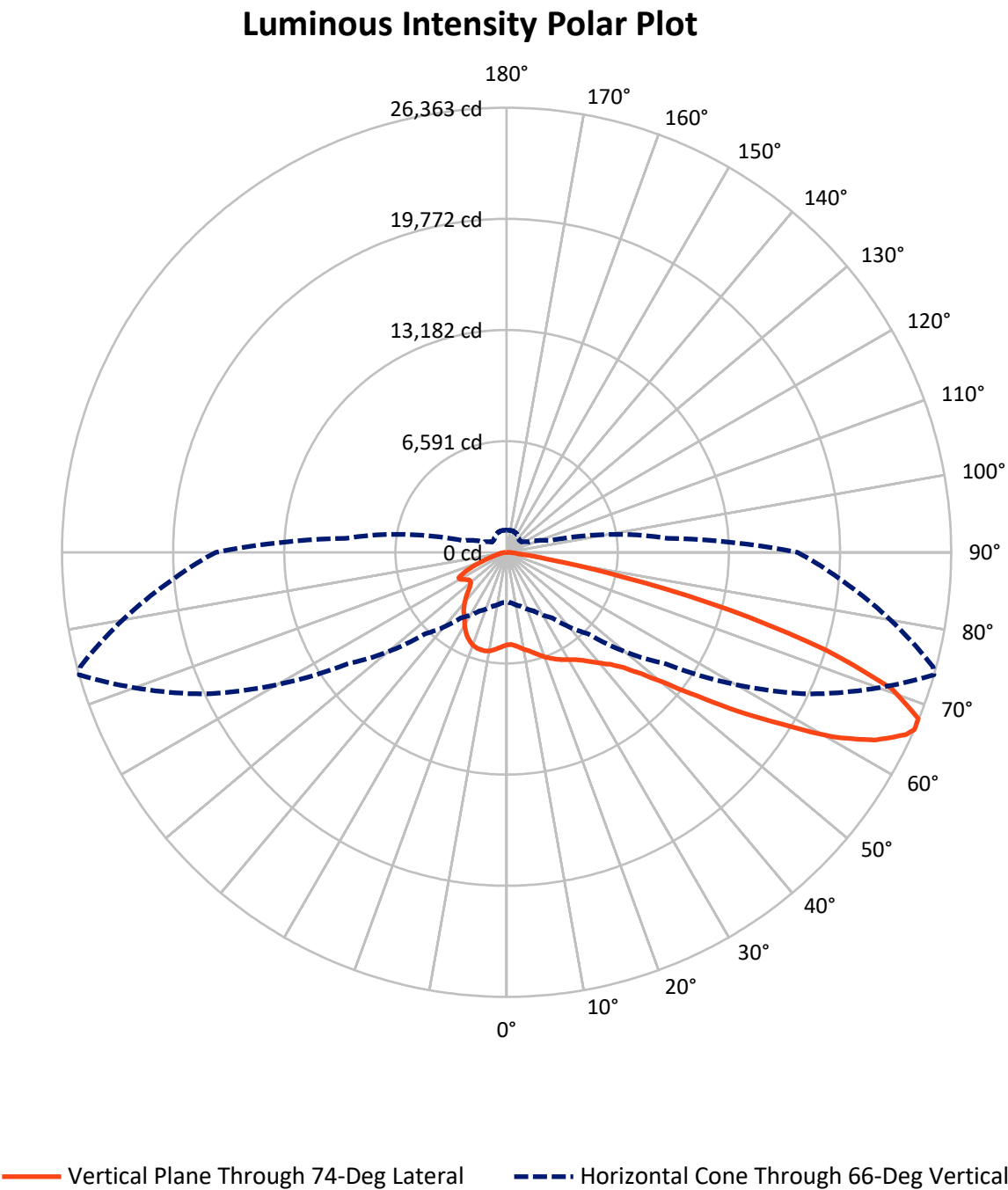
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
Type II - Short - N/A

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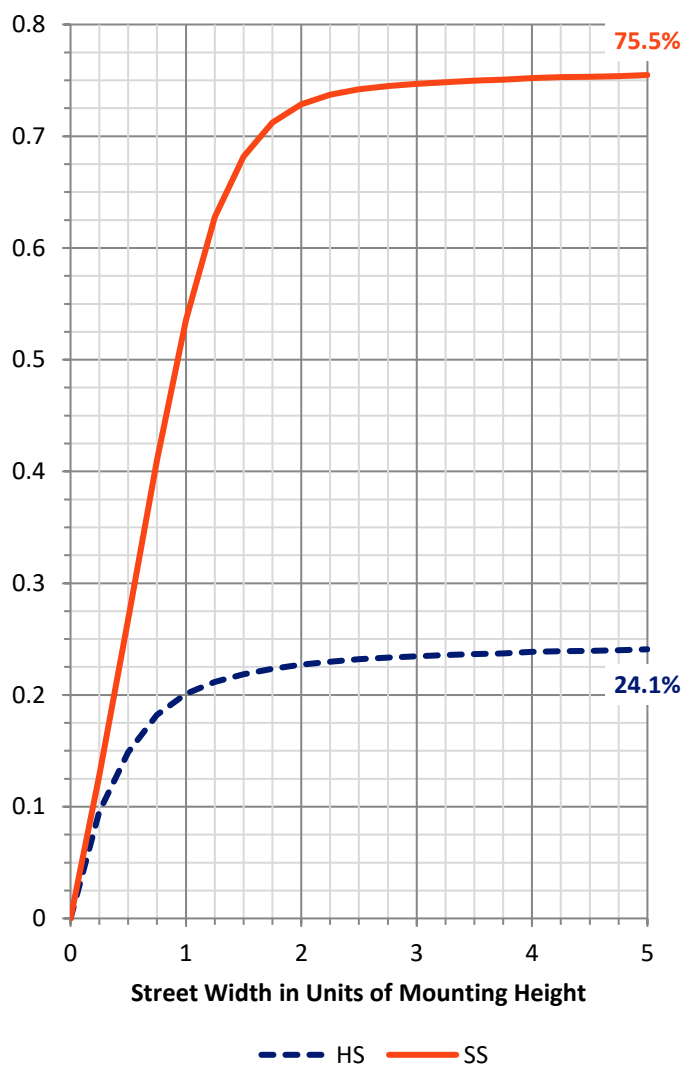
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8138.0	0.0	8138.0
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	25279.0	0.0	25279.0
	% Fixture	75.6	0.0	75.6
Total	Lumens	33417.0	0.0	33417.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.6	1.6
10°-20°	1607.0	4.8
20°-30°	3015.5	9.0
30°-40°	4638.6	13.9
40°-50°	6239.4	18.7
50°-60°	7378.8	22.1
60°-70°	6825.8	20.4
70°-80°	2871.6	8.6
80°-90°	317.8	1.0
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°	33417.0	100.0
0°-180°	33417.0	100.0

Coefficient of Utilization



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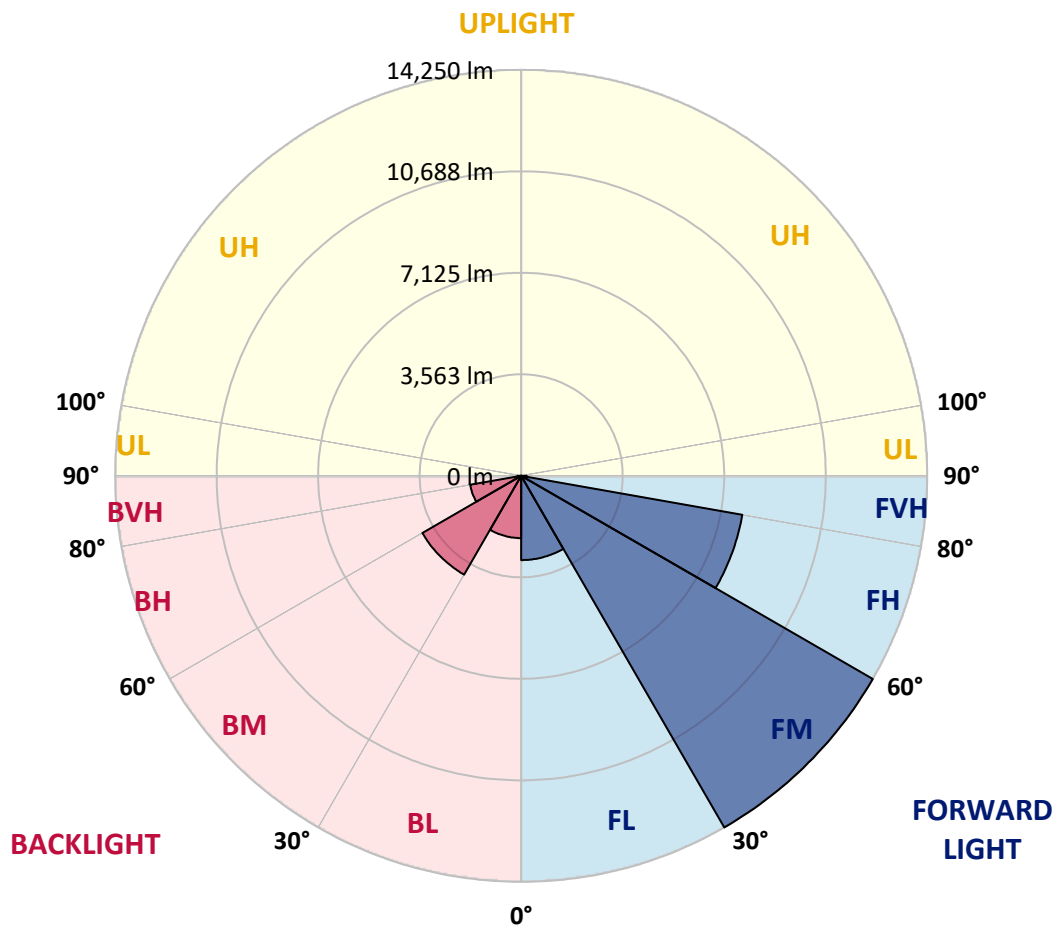
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2957.8	8.9			
FM	(30°-60°)	14250.5	42.6			
FH	(60°-80°)	7880.7	23.6			G4/12000
FVH	(80°-90°)	190.1	0.6			G2/225
BL	(0°-30°)	2187.3	6.5	B3/2500		
BM	(30°-60°)	4006.3	12.0	B3/5000		
BH	(60°-80°)	1816.7	5.4	B3/2500		G3/2500
BVH	(80°-90°)	127.6	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	5478.2	5478.2	5478.2	5478.2	5478.2	5478.2	5478.2	5478.2	5478.2	5478.2	5478.2
2.5°	5461.0	5452.4	5469.6	5495.4	5508.3	5486.8	5478.2	5473.9	5473.9	5461.0	5482.5
5°	5203.0	5198.7	5237.4	5284.7	5375.0	5439.5	5525.5	5577.1	5559.9	5534.1	5551.3
7.5°	4867.6	4859.0	4906.3	4996.6	5121.3	5263.2	5473.9	5637.3	5701.8	5693.2	5688.9
10°	4996.6	4988.0	4983.7	4957.9	5000.9	5138.5	5357.8	5645.9	5865.2	5869.5	5873.8
12.5°	5443.8	5465.3	5443.8	5362.1	5267.5	5215.9	5344.9	5667.4	6002.8	6028.6	6136.1
15°	6054.4	6032.9	5989.9	5895.3	5749.1	5594.3	5499.7	5766.3	6200.6	6222.1	6458.5
17.5°	6591.8	6609.0	6583.2	6492.9	6321.0	6118.9	5830.8	5938.3	6411.3	6471.4	6802.5
20°	7176.6	7245.4	7211.0	7099.2	6957.3	6656.3	6295.2	6187.7	6643.4	6686.4	7159.4
22.5°	7851.7	7924.8	7860.3	7752.8	7636.7	7266.9	6802.5	6492.9	6836.9	6927.2	7503.4
25°	8660.1	8728.9	8668.7	8501.0	8354.8	7903.3	7348.6	6836.9	7026.1	7125.0	7782.9
27.5°	9300.8	9352.4	9408.3	9309.4	9085.8	8617.1	7916.2	7193.8	7215.3	7318.5	8040.9
30°	9872.7	10001.7	10049.0	10061.9	9872.7	9348.1	8496.7	7563.6	7378.7	7486.2	8298.9
32.5°	10655.3	10848.8	10771.4	10848.8	10737.0	10036.1	9098.7	7946.3	7589.4	7688.3	8544.0
35°	11799.1	11953.9	11751.8	11691.6	11511.0	10732.7	9679.2	8341.9	7868.9	7976.4	8776.2
37.5°	13028.9	13205.2	12912.8	12672.0	12328.0	11420.7	10178.0	8862.2	8255.9	8341.9	8991.2
40°	14103.9	14250.1	13996.4	13678.2	13102.0	12027.0	10608.0	9227.7	8642.9	8750.4	9240.6
42.5°	15097.2	15191.8	14908.0	14602.7	13833.0	12573.1	11072.4	9614.7	9094.4	9197.6	9442.7
45°	16103.4	16176.5	15780.9	15346.6	14443.6	13071.9	11584.1	10156.5	9756.6	9894.2	9769.5
47.5°	16284.0	16305.5	16236.7	15944.3	14925.2	13549.2	12216.2	10883.2	10767.1	10917.6	10332.8
50°	15032.7	15226.2	15651.9	15940.0	15118.7	13949.1	12848.3	11923.8	12160.3	12353.8	11502.4
52.5°	12603.2	12788.1	13772.8	14865.0	14654.3	14039.4	13527.7	13243.9	14125.4	14357.6	13093.4
55°	10040.4	10203.8	11244.4	12818.2	13153.6	13626.6	14254.4	14929.5	16632.3	16787.1	14839.2
57.5°	8268.8	8359.1	9103.0	10616.6	11154.1	12306.5	14645.7	16933.3	19182.2	19418.6	16357.1
60°	6781.0	6879.9	7434.6	8681.6	9395.4	10418.8	14336.1	18911.3	22226.5	22226.5	18305.0
62.5°	5104.1	5190.1	5706.1	6682.1	7881.8	8819.2	13347.1	20222.7	24522.7	24419.5	19715.3
65°	3504.5	3573.3	3947.4	4596.7	5676.0	7516.3	11996.9	20239.9	26044.9	25907.3	20317.3
66°	2941.2	3001.4	3319.6	3844.2	4751.5	6819.7	11519.6	19874.4	26363.1	26169.6	20063.6
67.5°	2322.0	2365.0	2575.7	2885.3	3483.0	5521.2	10767.1	18838.2	26333.0	26216.9	19418.6
70°	1659.8	1689.9	1844.7	1909.2	2059.7	3194.9	8552.6	16499.0	24221.7	24256.1	16881.7
72.5°	1285.7	1333.0	1427.6	1440.5	1406.1	1698.5	5190.1	13764.2	19814.2	19801.3	12530.1
75°	1036.3	1062.1	1109.4	1135.2	1126.6	1096.5	2197.3	10268.3	13639.5	13798.6	7017.5
77.5°	817.0	812.7	855.7	890.1	915.9	860.0	1006.2	6020.0	7150.8	6948.7	2635.9
80°	602.0	602.0	662.2	675.1	713.8	722.4	670.8	2322.0	2455.3	2231.7	683.7
82.5°	395.6	395.6	460.1	468.7	507.4	563.3	485.9	696.6	679.4	645.0	309.6
85°	215.0	206.4	227.9	258.0	279.5	331.1	292.4	348.3	356.9	352.6	206.4
87.5°	43.0	38.7	60.2	68.8	77.4	103.2	94.6	141.9	197.8	193.5	90.3
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°	5478.2	5478.2	5478.2	5478.2	5478.2	5478.2	5478.2	5478.2	5478.2	5478.2	5478.2
2.5°	5512.6	5508.3	5555.6	5611.5	5676.0	5714.7	5731.9	5762.0	5740.5	5749.1	5774.9
5°	5594.3	5607.2	5676.0	5749.1	5779.2	5757.7	5710.4	5693.2	5654.5	5645.9	5637.3
7.5°	5714.7	5736.2	5805.0	5822.2	5731.9	5581.4	5473.9	5413.7	5349.2	5332.0	5323.4
10°	5912.5	5925.4	5942.6	5766.3	5542.7	5340.6	5207.3	5151.4	5108.4	5074.0	5082.6
12.5°	6161.9	6153.3	6020.0	5654.5	5336.3	5129.9	5039.6	5005.2	4975.1	4953.6	4949.3
15°	6475.7	6415.6	6032.9	5499.7	5142.8	4970.8	4906.3	4893.4	4859.0	4859.0	4854.7
17.5°	6793.9	6639.1	6024.3	5336.3	4957.9	4863.3	4824.6	4816.0	4807.4	4803.1	4816.0
20°	7112.1	6836.9	5955.5	5134.2	4828.9	4773.0	4764.4	4768.7	4760.1	4773.0	4764.4
22.5°	7391.6	6965.9	5826.5	4919.2	4738.6	4734.3	4712.8	4721.4	4751.5	4755.8	4768.7
25°	7606.6	7013.2	5637.3	4721.4	4674.1	4665.5	4691.3	4725.7	4751.5	4755.8	4777.3
27.5°	7782.9	6987.4	5400.8	4566.6	4562.3	4609.6	4687.0	4699.9	4704.2	4704.2	4687.0
30°	7916.2	6931.5	5099.8	4394.6	4416.1	4532.2	4605.3	4605.3	4570.9	4562.3	4588.1
32.5°	7946.3	6858.4	4773.0	4218.3	4252.7	4390.3	4480.6	4450.5	4411.8	4411.8	4429.0
35°	7972.1	6759.5	4510.7	3977.5	4029.1	4192.5	4278.5	4218.3	4175.3	4162.4	4158.1
37.5°	7963.5	6720.8	4274.2	3672.2	3741.0	3900.1	3956.0	3900.1	3835.6	3805.5	3844.2
40°	7972.1	6695.0	3977.5	3336.8	3405.6	3500.2	3573.3	3530.3	3470.1	3392.7	3431.4
42.5°	8023.7	6729.4	3650.7	3010.0	3010.0	3061.6	3186.3	3156.2	3010.0	2979.9	3014.3
45°	8298.9	6914.3	3323.9	2683.2	2635.9	2670.3	2799.3	2670.3	2580.0	2580.0	2610.1
47.5°	8965.4	7258.3	3035.8	2395.1	2283.3	2352.1	2386.5	2266.1	2197.3	2180.1	2210.2
50°	10324.2	7946.3	2863.8	2158.6	2021.0	2072.6	2051.1	2046.8	1978.0	1986.6	2003.8
52.5°	12388.2	9287.9	2812.2	2042.5	1870.5	1883.4	1861.9	1870.5	1857.6	1900.6	1913.5
55°	14637.1	10702.6	2876.7	2059.7	1767.3	1677.0	1685.6	1728.6	1780.2	1849.0	1861.9
57.5°	16318.4	11412.1	3044.4	2175.8	1638.3	1500.7	1522.2	1603.9	1702.8	1758.7	1788.8
60°	17569.7	11326.1	3289.5	2205.9	1483.5	1341.6	1380.3	1500.7	1586.7	1634.0	1664.1
62.5°	17978.2	10788.6	3349.7	1986.6	1281.4	1191.1	1285.7	1410.4	1449.1	1500.7	1522.2
65°	17642.8	10027.5	2911.1	1612.5	1126.6	1079.3	1216.9	1311.5	1363.1	1388.9	1393.2
66°	17247.2	9571.7	2674.6	1466.3	1070.7	1044.9	1191.1	1268.5	1320.1	1315.8	1320.1
67.5°	16378.6	8617.1	2291.9	1259.9	989.0	993.3	1148.1	1199.7	1216.9	1204.0	1204.0
70°	13424.5	6067.3	1642.6	954.6	868.6	928.8	1032.0	1044.9	1083.6	1066.4	1066.4
72.5°	8277.4	2979.9	1100.8	731.0	774.0	868.6	864.3	907.3	997.6	1023.4	1040.6
75°	4067.8	1208.3	726.7	619.2	692.3	726.7	718.1	825.6	954.6	1066.4	1105.1
77.5°	1543.7	602.0	507.4	541.8	559.0	546.1	571.9	748.2	954.6	1156.7	1195.4
80°	477.3	417.1	399.9	447.2	421.4	399.9	430.0	619.2	808.4	877.2	877.2
82.5°	288.1	326.8	309.6	305.3	283.8	288.1	309.6	442.9	623.5	653.6	653.6
85°	202.1	215.0	176.3	167.7	163.4	159.1	159.1	258.0	369.8	365.5	378.4
87.5°	77.4	86.0	64.5	64.5	60.2	43.0	34.4	43.0	43.0	30.1	21.5
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)