

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: P841386

Luminaire Tested: **ARCH4-170-730-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-170-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1380mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26638 lumens
Efficiency: N/A
Efficacy: 156.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

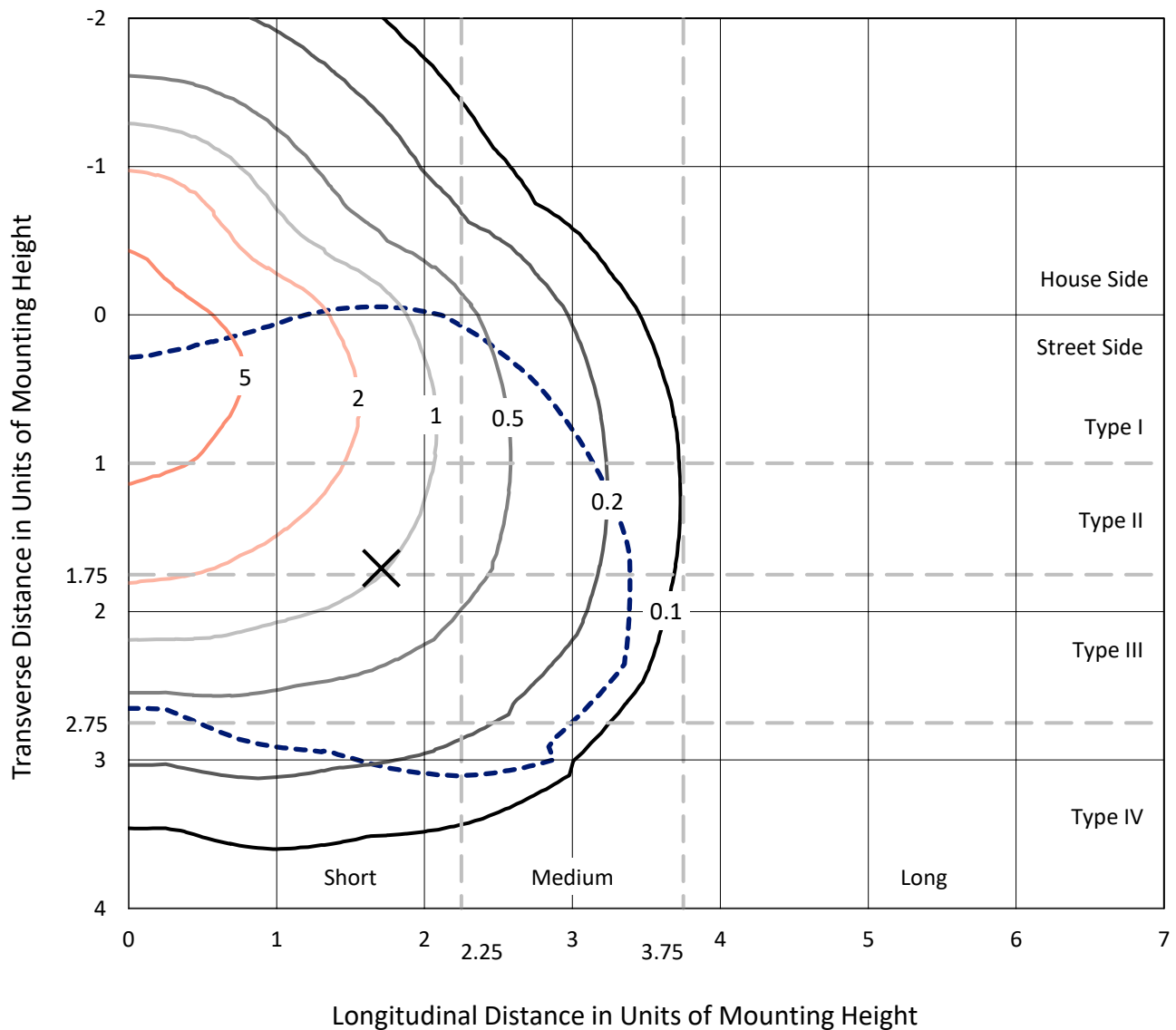
Input Watts (W): 169.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

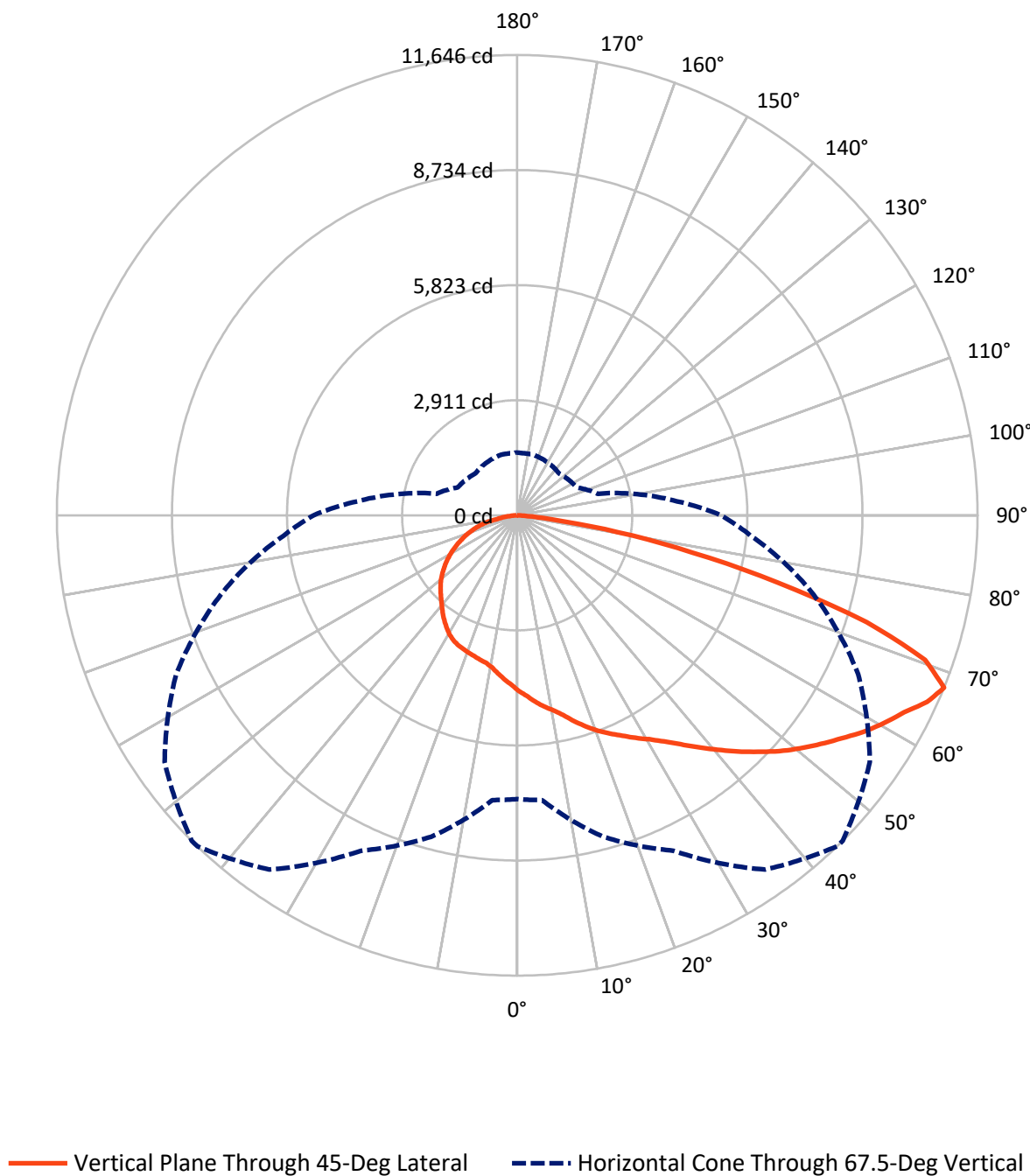
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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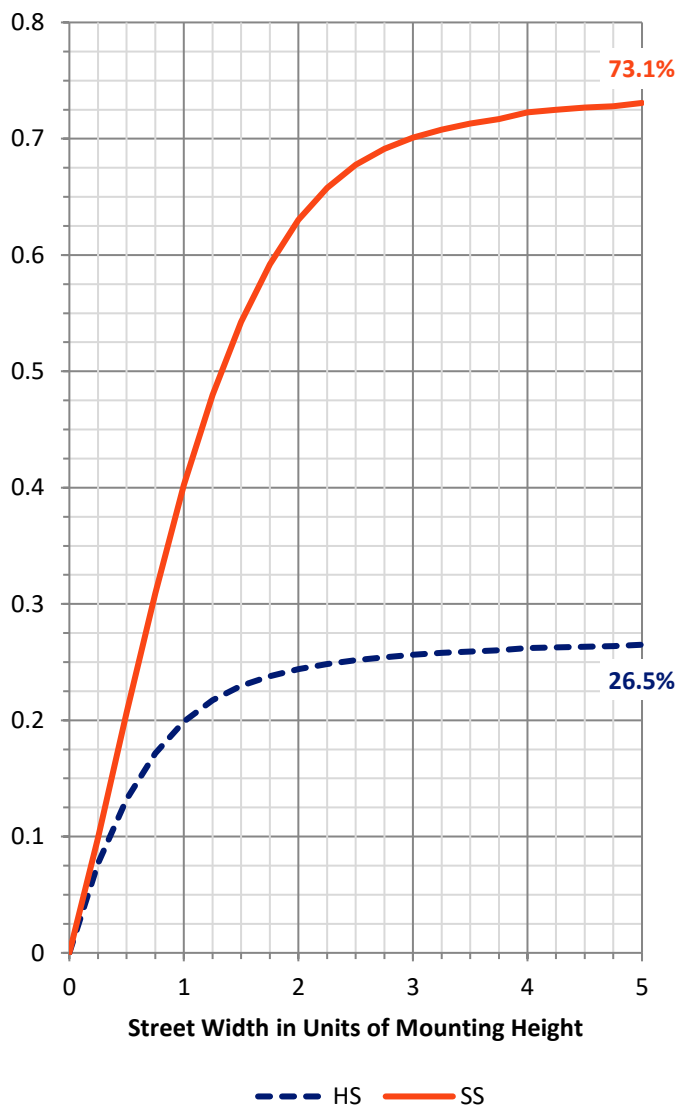
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7116.4	0.0	7116.4
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	19521.6	0.0	19521.6
	% Fixture	73.3	0.0	73.3
Total	Lumens	26638.0	0.0	26638.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.4	1.6
10°-20°	1314.0	4.9
20°-30°	2268.1	8.5
30°-40°	3344.7	12.6
40°-50°	4531.4	17.0
50°-60°	5538.5	20.8
60°-70°	5712.2	21.4
70°-80°	3128.7	11.7
80°-90°	375.0	1.4
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°	26638.0	100.0
0°-180°	26638.0	100.0

Coefficient of Utilization



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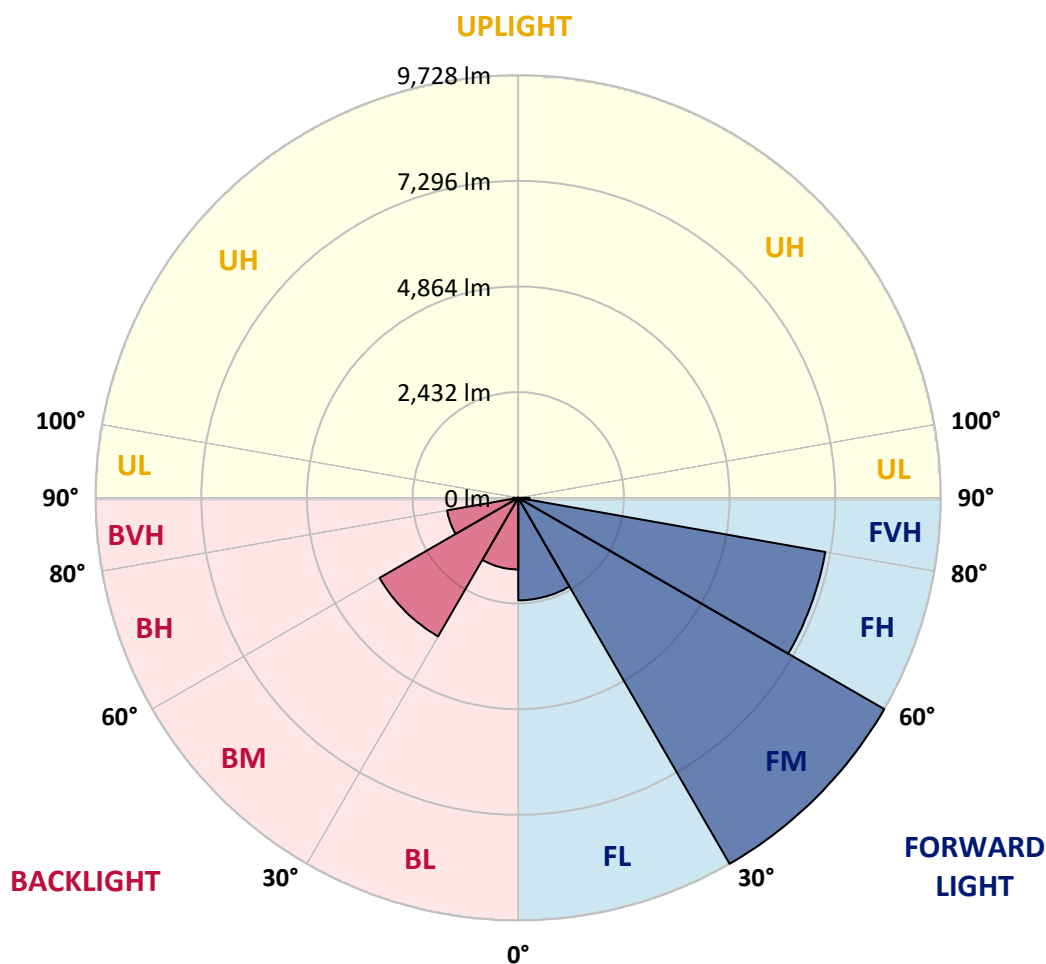
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2358.2	8.9			
FM	(30°-60°)	9728.5	36.5			
FH	(60°-80°)	7176.7	26.9			G3/7500
FVH	(80°-90°)	258.3	1.0			G3/500
BL	(0°-30°)	1649.3	6.2	B3/2500		
BM	(30°-60°)	3686.2	13.8	B3/5000		
BH	(60°-80°)	1664.2	6.2	B3/2500		G3/2500
BVH	(80°-90°)	116.7	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4442.7	4442.7	4442.7	4442.7	4442.7	4442.7	4442.7	4442.7	4442.7	4442.7	4442.7
2.5°	4637.3	4633.2	4641.3	4613.0	4576.5	4572.4	4572.4	4548.1	4519.7	4463.0	4418.4
5°	4856.2	4848.1	4852.1	4811.6	4762.9	4738.6	4734.6	4681.9	4617.0	4527.8	4446.8
7.5°	5058.9	5050.7	5046.7	5002.1	4929.1	4888.6	4884.6	4807.5	4730.5	4592.7	4475.1
10°	5249.4	5241.3	5233.2	5172.4	5083.2	5022.4	5014.3	4917.0	4819.7	4649.4	4499.5
12.5°	5492.6	5476.4	5468.3	5395.3	5265.6	5200.7	5188.6	5058.9	4937.2	4730.5	4548.1
15°	5748.0	5735.8	5723.6	5654.7	5508.8	5423.7	5403.4	5241.3	5075.1	4835.9	4621.1
17.5°	5938.5	5926.3	5926.3	5865.5	5731.7	5634.5	5618.2	5423.7	5216.9	4933.2	4677.8
20°	6056.0	6043.9	6056.0	6019.6	5918.2	5837.1	5820.9	5606.1	5358.8	5022.4	4726.5
22.5°	6141.2	6129.0	6149.3	6133.1	6060.1	6011.4	5999.3	5788.5	5504.7	5115.6	4775.1
25°	6291.1	6291.1	6291.1	6262.8	6193.9	6177.6	6177.6	5995.2	5691.2	5237.2	4848.1
27.5°	6591.1	6574.9	6554.6	6473.6	6356.0	6351.9	6376.3	6206.0	5906.1	5395.3	4937.2
30°	7032.9	7024.8	6947.8	6777.6	6578.9	6558.7	6574.9	6433.0	6137.1	5561.5	5038.6
32.5°	7604.5	7576.1	7418.0	7162.7	6878.9	6785.7	6818.1	6668.1	6380.3	5731.7	5135.9
35°	8009.9	8018.0	7904.5	7673.4	7337.0	7089.7	7114.0	6931.6	6643.8	5922.3	5257.5
37.5°	8476.0	8504.4	8334.1	8159.8	7847.7	7426.1	7450.5	7203.2	6907.3	6161.4	5387.2
40°	9120.5	9063.8	8776.0	8569.2	8224.7	7778.8	7799.1	7507.2	7211.3	6388.4	5537.2
42.5°	9659.7	9558.3	9209.7	8946.2	8532.8	8151.7	8172.0	7835.6	7519.4	6639.7	5703.4
45°	10433.9	10154.2	9651.6	9521.8	8848.9	8516.6	8536.8	8184.2	7843.7	6907.3	5881.7
47.5°	10883.8	10437.9	10117.7	10048.8	9197.6	8893.5	8917.9	8553.0	8192.3	7211.3	6068.2
50°	10855.5	10567.7	10474.4	10304.2	9505.6	9246.2	9270.5	8934.1	8544.9	7511.3	6246.6
52.5°	10669.0	10721.7	10673.1	10389.3	9813.7	9586.7	9615.1	9311.1	8905.7	7791.0	6412.7
55°	10956.8	10993.3	10900.1	10527.1	10154.2	9927.2	9959.6	9708.3	9262.4	8038.2	6554.6
57.5°	11301.4	11171.6	11078.4	10770.3	10506.9	10296.1	10332.6	10113.7	9570.5	8236.9	6664.1
60°	11285.1	11013.6	11106.8	10786.6	10746.0	10636.6	10669.0	10446.1	9805.6	8382.8	6708.7
62.5°	10454.2	10308.2	10778.4	10669.0	10940.6	10940.6	10981.1	10648.7	9947.5	8443.6	6684.3
65°	9011.1	9019.2	9846.1	10300.1	11171.6	11358.1	11390.5	10774.4	9866.4	8265.2	6457.3
67.5°	7178.9	7231.6	8419.3	9363.7	10940.6	11641.9	11645.9	10887.9	9517.8	7762.6	5930.4
70°	5253.4	5294.0	6696.5	7843.7	9850.2	11013.6	10948.7	10567.7	8759.8	6887.0	5107.5
72.5°	3550.9	3587.4	5030.5	6023.6	8082.8	9380.0	9238.1	9339.4	7466.7	5658.8	4106.3
75°	2387.6	2432.1	3579.3	4308.9	5946.6	7122.1	6805.9	7073.5	5776.3	4284.6	2995.6
77.5°	1503.9	1532.2	2274.1	2825.3	4061.7	4848.1	4531.9	4535.9	3328.0	2306.5	1609.3
80°	956.6	964.7	1378.2	1629.5	2351.1	2914.5	2578.1	2095.7	1499.8	1224.2	960.7
82.5°	555.3	543.2	822.9	920.2	1118.8	1106.6	916.1	867.5	656.7	612.1	490.5
85°	222.9	206.7	360.8	336.4	340.5	360.8	267.5	267.5	214.8	166.2	121.6
87.5°	44.6	44.6	48.6	44.6	44.6	48.6	36.5	36.5	32.4	32.4	32.4
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°	4442.7	4442.7	4442.7	4442.7	4442.7	4442.7	4442.7	4442.7	4442.7	4442.7	4442.7
2.5°	4410.3	4402.2	4381.9	4329.2	4300.8	4284.6	4260.3	4252.2	4248.1	4252.2	4264.4
5°	4422.4	4394.1	4337.3	4252.2	4195.4	4159.0	4118.4	4102.2	4090.1	4090.1	4102.2
7.5°	4430.6	4386.0	4288.7	4163.0	4081.9	4025.2	3976.6	3956.3	3952.2	3964.4	3968.4
10°	4434.6	4369.7	4231.9	4073.8	3968.4	3895.5	3846.8	3834.7	3846.8	3871.2	3875.2
12.5°	4463.0	4373.8	4199.5	4013.0	3887.4	3814.4	3777.9	3777.9	3810.4	3854.9	3859.0
15°	4511.6	4402.2	4183.3	3964.4	3834.7	3769.8	3757.7	3777.9	3826.6	3895.5	3903.6
17.5°	4548.1	4418.4	4146.8	3899.5	3765.8	3725.2	3745.5	3794.1	3863.1	3956.3	3964.4
20°	4572.4	4418.4	4094.1	3822.5	3696.9	3688.7	3745.5	3822.5	3895.5	4004.9	4017.1
22.5°	4596.7	4410.3	4033.3	3729.3	3619.8	3644.2	3749.6	3846.8	3919.8	4037.4	4057.6
25°	4641.3	4422.4	3972.5	3636.1	3538.8	3607.7	3745.5	3863.1	3940.1	4061.7	4094.1
27.5°	4702.1	4450.8	3927.9	3550.9	3457.7	3550.9	3717.1	3859.0	3940.1	4057.6	4094.1
30°	4767.0	4483.2	3875.2	3457.7	3364.5	3469.9	3656.3	3814.4	3907.6	4017.1	4061.7
32.5°	4835.9	4519.7	3830.6	3356.4	3251.0	3360.4	3567.1	3745.5	3846.8	3948.2	3996.8
35°	4929.1	4584.6	3806.3	3275.3	3149.6	3246.9	3453.6	3656.3	3765.8	3859.0	3915.7
37.5°	5042.6	4665.7	3794.1	3194.2	3040.2	3121.2	3332.0	3546.9	3664.4	3741.4	3794.1
40°	5172.4	4767.0	3790.1	3117.2	2930.7	2991.5	3206.4	3421.2	3534.7	3595.5	3640.1
42.5°	5318.3	4880.5	3782.0	3040.2	2821.3	2869.9	3084.8	3295.6	3392.8	3445.5	3486.1
45°	5472.3	4994.0	3765.8	2946.9	2703.7	2760.5	2959.1	3145.6	3246.9	3291.5	3336.1
47.5°	5626.4	5107.5	3733.3	2841.6	2598.3	2651.0	2825.3	2987.5	3068.6	3109.1	3153.7
50°	5776.3	5208.8	3656.3	2719.9	2488.9	2537.5	2671.3	2780.7	2841.6	2874.0	2918.6
52.5°	5910.1	5277.7	3546.9	2578.1	2379.4	2403.8	2492.9	2586.2	2634.8	2638.9	2679.4
55°	6023.6	5314.2	3388.8	2432.1	2261.9	2265.9	2314.6	2387.6	2407.8	2391.6	2420.0
57.5°	6088.5	5294.0	3214.5	2282.2	2140.3	2124.1	2160.6	2197.0	2201.1	2160.6	2188.9
60°	6104.7	5200.7	2987.5	2132.2	2018.7	1974.1	1986.2	1978.1	1970.0	1953.8	1978.1
62.5°	6023.6	5002.1	2736.2	1986.2	1889.0	1820.1	1816.0	1811.9	1824.1	1828.2	1832.2
65°	5727.7	4629.2	2436.2	1836.3	1751.1	1657.9	1653.9	1702.5	1718.7	1694.4	1702.5
67.5°	5156.1	4057.6	2107.9	1662.0	1576.8	1495.8	1528.2	1556.6	1584.9	1576.8	1584.9
70°	4345.4	3332.0	1807.9	1467.4	1386.3	1341.7	1378.2	1402.5	1406.6	1398.5	1406.6
72.5°	3417.2	2602.4	1528.2	1268.8	1195.8	1175.5	1220.1	1240.4	1276.9	1293.1	1297.1
75°	2468.6	1921.4	1252.6	1053.9	993.1	993.1	1033.7	1070.1	1102.6	1082.3	1070.1
77.5°	1378.2	1147.2	899.9	725.6	737.7	794.5	810.7	851.2	883.7	879.6	871.5
80°	835.0	717.5	608.0	470.2	466.2	510.7	616.1	685.1	701.3	664.8	660.7
82.5°	433.7	377.0	324.3	263.5	291.9	340.5	356.7	429.7	474.3	458.1	478.3
85°	109.4	105.4	117.6	121.6	150.0	166.2	182.4	214.8	141.9	68.9	68.9
87.5°	32.4	32.4	40.5	40.5	52.7	64.9	60.8	60.8	32.4	4.1	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)