

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: P841022

Luminaire Tested: **ARCH4-120-730-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841022
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-120-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1000mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20596 lumens
Efficiency: N/A
Efficacy: 168.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 122
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

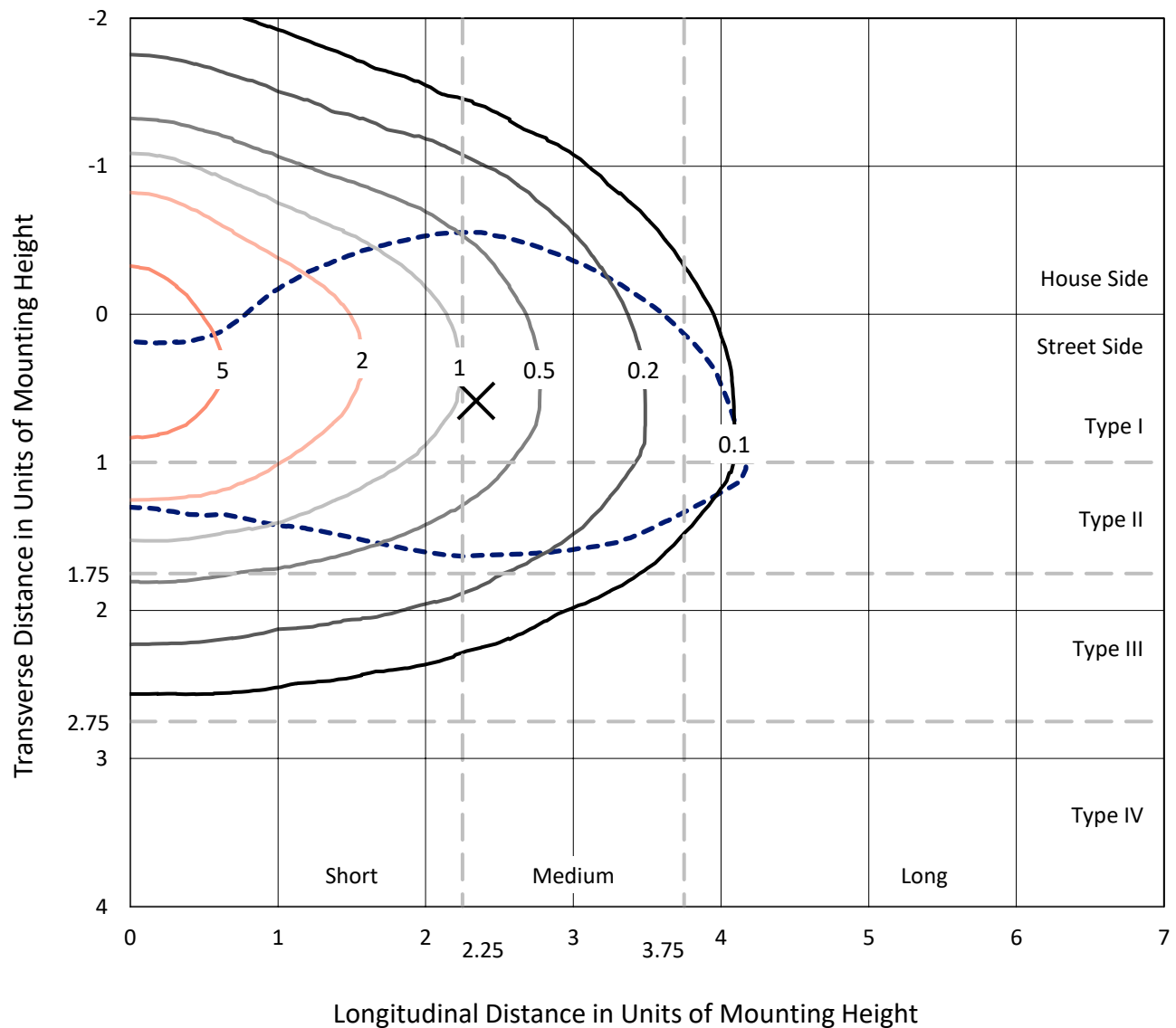


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Iso-Footcandle Lines of Horizontal Illumination

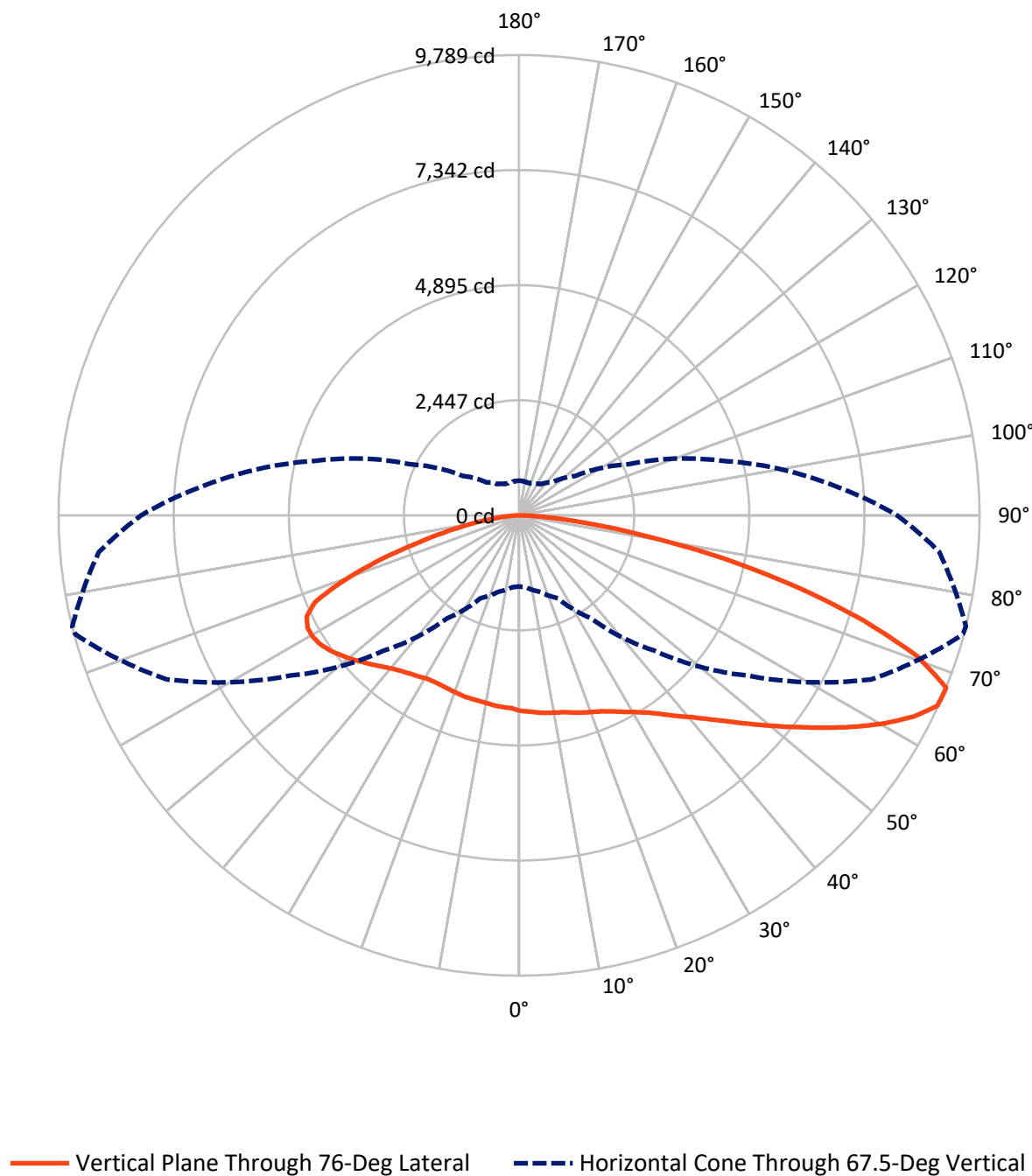
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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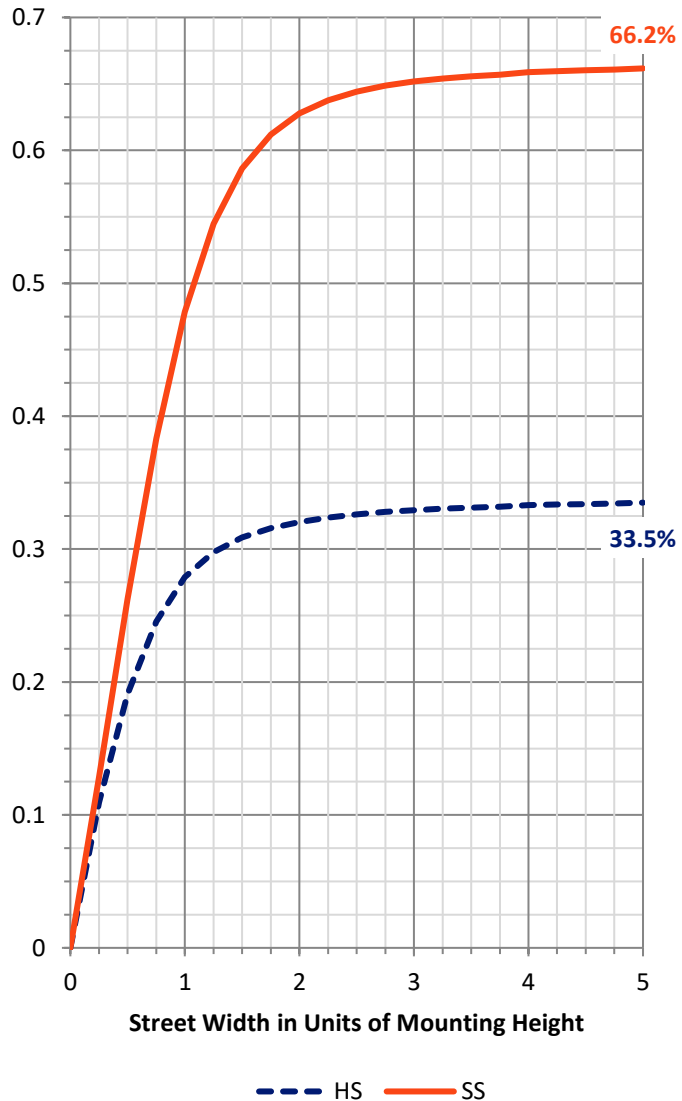
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6959.5	0.0	6959.5
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	13636.5	0.0	13636.5
	% Fixture	66.2	0.0	66.2
Total	Lumens	20596.0	0.0	20596.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.2	1.9
10°-20°	1226.5	6.0
20°-30°	2083.8	10.1
30°-40°	2965.0	14.4
40°-50°	3744.6	18.2
50°-60°	4054.3	19.7
60°-70°	3770.9	18.3
70°-80°	2025.3	9.8
80°-90°	324.5	1.6
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°	20596.0	100.0
0°-180°	20596.0	100.0

Coefficient of Utilization



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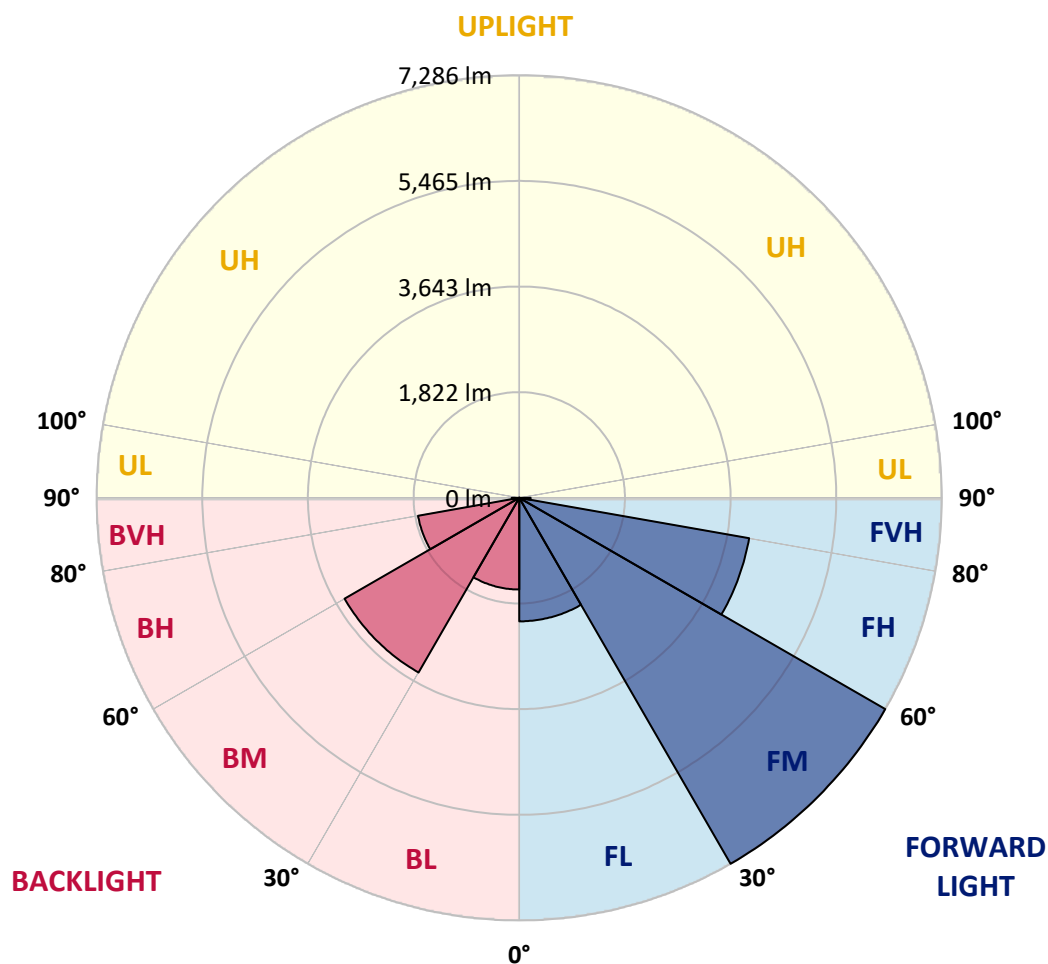
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2129.8	10.3			
FM	(30°-60°)	7286.1	35.4			
FH	(60°-80°)	4024.3	19.5			G2/5000
FVH	(80°-90°)	196.3	1.0			G2/225
BL	(0°-30°)	1581.6	7.7	B3/2500		
BM	(30°-60°)	3477.8	16.9	B3/5000		
BH	(60°-80°)	1772.0	8.6	B3/2500		G3/2500
BVH	(80°-90°)	128.2	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4160.3	4160.3	4160.3	4160.3	4160.3	4160.3	4160.3	4160.3	4160.3	4160.3	4160.3
2.5°	4286.5	4278.9	4248.3	4252.1	4252.1	4248.3	4202.4	4183.3	4183.3	4179.5	4137.4
5°	4439.5	4428.0	4393.6	4386.0	4370.7	4351.5	4278.9	4236.8	4217.7	4213.9	4156.5
7.5°	4619.2	4603.9	4561.9	4538.9	4500.7	4451.0	4359.2	4294.2	4248.3	4244.5	4164.2
10°	4798.9	4783.6	4733.9	4691.9	4638.3	4558.0	4439.5	4343.9	4271.2	4263.6	4168.0
12.5°	5013.1	4997.8	4936.6	4883.1	4802.8	4695.7	4538.9	4408.9	4309.5	4298.0	4179.5
15°	5238.7	5215.7	5154.5	5093.4	4993.9	4856.3	4668.9	4496.8	4370.7	4351.5	4213.9
17.5°	5426.0	5395.4	5345.7	5284.6	5173.7	5013.1	4798.9	4584.8	4428.0	4412.7	4248.3
20°	5586.6	5563.7	5510.2	5452.8	5334.3	5158.4	4921.3	4672.7	4481.5	4462.4	4275.1
22.5°	5739.6	5709.0	5678.4	5636.4	5506.3	5311.3	5062.8	4779.8	4550.4	4527.4	4309.5
25°	5915.5	5881.1	5869.6	5846.7	5693.7	5494.9	5234.8	4913.6	4646.0	4619.2	4370.7
27.5°	6133.5	6095.2	6072.3	6072.3	5888.7	5682.2	5418.4	5070.4	4756.9	4733.9	4447.1
30°	6362.9	6317.0	6282.6	6282.6	6076.1	5869.6	5598.1	5227.2	4883.1	4856.3	4546.6
32.5°	6565.5	6519.7	6481.4	6477.6	6263.5	6057.0	5785.5	5399.3	5036.0	5001.6	4668.9
35°	6722.3	6680.3	6645.8	6653.5	6450.8	6248.2	5995.8	5628.7	5227.2	5189.0	4829.5
37.5°	6817.9	6802.6	6783.5	6810.3	6622.9	6431.7	6213.8	5850.5	5445.2	5410.7	5028.4
40°	6867.6	6856.2	6932.6	6967.1	6768.2	6596.1	6431.7	6079.9	5682.2	5644.0	5257.8
42.5°	6940.3	7035.9	7066.5	7058.8	6875.3	6722.3	6630.6	6328.5	5961.4	5927.0	5533.1
45°	6680.3	6657.3	6825.6	6917.3	6882.9	6802.6	6817.9	6626.7	6286.4	6252.0	5850.5
47.5°	6332.3	6301.7	6397.3	6622.9	6756.7	6833.2	6986.2	6936.5	6661.1	6630.6	6221.4
50°	5598.1	5640.2	5995.8	6297.9	6561.7	6825.6	7127.7	7269.1	7074.1	7043.5	6619.1
52.5°	4783.6	4825.7	5196.6	5892.5	6324.6	6768.2	7230.9	7601.8	7521.5	7487.1	7043.5
55°	4190.9	4282.7	4703.3	5208.1	5988.1	6588.5	7292.1	7942.1	8003.3	7972.7	7506.2
57.5°	3602.1	3670.9	3988.3	4435.7	5529.3	6274.9	7288.3	8259.5	8508.1	8477.5	7976.5
60°	2909.9	2997.9	3250.3	3732.1	4917.5	5900.2	7181.2	8508.1	8993.7	8970.7	8431.6
62.5°	2435.8	2462.6	2642.3	3059.1	4129.8	5426.0	6940.3	8641.9	9433.4	9418.1	8840.7
65°	1961.6	1965.5	2129.9	2477.9	3368.8	4837.2	6531.1	8592.2	9766.1	9773.8	9135.2
67.5°	1514.2	1533.4	1682.5	1946.3	2676.7	4072.4	5946.1	8255.7	9769.9	9789.1	8966.9
70°	1047.7	1063.0	1288.6	1544.8	2068.7	3246.4	5154.5	7364.7	8966.9	8982.2	8037.7
72.5°	738.0	745.7	986.6	1235.1	1617.5	2447.3	3888.9	6091.4	7643.9	7655.3	6760.6
75°	550.6	558.3	695.9	936.8	1238.9	1694.0	2657.6	4665.1	6106.7	6106.7	5338.1
77.5°	390.0	393.9	451.2	646.2	826.0	1143.3	1598.4	3055.3	4481.5	4489.2	3888.9
80°	263.8	267.7	294.4	435.9	516.2	619.5	868.0	1602.2	2825.8	2837.3	2470.2
82.5°	137.7	145.3	164.4	221.8	260.0	344.1	447.4	814.5	1564.0	1594.5	1483.7
85°	53.5	53.5	61.2	72.7	95.6	133.8	206.5	309.7	707.4	730.4	653.9
87.5°	19.1	19.1	22.9	22.9	26.8	30.6	34.4	45.9	80.3	80.3	76.5
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°	4160.3	4160.3	4160.3	4160.3	4160.3	4160.3	4160.3	4160.3	4160.3	4160.3	4160.3
2.5°	4122.1	4122.1	4103.0	4110.6	4106.8	4099.2	4091.5	4103.0	4091.5	4064.8	4060.9
5°	4129.8	4122.1	4091.5	4087.7	4076.2	4060.9	4041.8	4049.5	4030.3	4007.4	4003.6
7.5°	4133.6	4118.3	4076.2	4060.9	4038.0	4007.4	3976.8	3976.8	3950.0	3927.1	3923.3
10°	4125.9	4106.8	4049.5	4018.9	3976.8	3930.9	3888.9	3877.4	3846.8	3820.0	3820.0
12.5°	4129.8	4103.0	4030.3	3980.6	3923.3	3865.9	3812.4	3797.1	3770.3	3743.5	3739.7
15°	4152.7	4114.5	4022.7	3957.7	3873.6	3808.6	3751.2	3739.7	3716.8	3697.7	3697.7
17.5°	4175.6	4125.9	4011.2	3919.4	3816.2	3743.5	3690.0	3690.0	3674.7	3663.2	3663.2
20°	4187.1	4129.8	3988.3	3865.9	3747.4	3670.9	3621.2	3628.8	3625.0	3621.2	3621.2
22.5°	4213.9	4137.4	3969.2	3816.2	3674.7	3594.4	3548.5	3560.0	3556.2	3556.2	3560.0
25°	4255.9	4156.5	3953.9	3770.3	3605.9	3517.9	3468.2	3475.9	3475.9	3475.9	3475.9
27.5°	4313.3	4194.8	3950.0	3728.3	3537.1	3437.6	3376.5	3376.5	3361.2	3365.0	3368.8
30°	4401.2	4267.4	3957.7	3690.0	3464.4	3338.2	3265.6	3254.1	3250.3	3257.9	3261.7
32.5°	4508.3	4366.8	4003.6	3663.2	3387.9	3227.3	3135.6	3131.7	3120.3	3120.3	3120.3
35°	4642.2	4462.4	4045.6	3659.4	3311.5	3108.8	3009.4	2997.9	2971.1	2959.7	2959.7
37.5°	4814.2	4611.6	4095.3	3632.7	3246.4	2994.1	2875.5	2837.3	2806.7	2802.9	2802.9
40°	5024.5	4779.8	4168.0	3602.1	3177.6	2875.5	2718.8	2653.8	2657.6	2672.9	2672.9
42.5°	5273.1	4986.3	4259.8	3586.8	3078.2	2753.2	2535.2	2458.7	2485.5	2500.8	2504.6
45°	5563.7	5231.0	4363.0	3567.7	2986.4	2615.5	2340.2	2244.6	2256.1	2259.9	2263.7
47.5°	5900.2	5502.5	4470.1	3552.4	2883.2	2443.4	2126.1	1999.9	1996.0	1973.1	1980.8
50°	6252.0	5789.3	4581.0	3525.6	2757.0	2240.8	1900.5	1751.3	1720.7	1686.3	1690.1
52.5°	6626.7	6083.7	4684.2	3483.5	2600.2	2034.3	1686.3	1525.7	1464.5	1426.3	1433.9
55°	7039.7	6385.8	4783.6	3418.5	2435.8	1827.8	1495.1	1330.7	1254.2	1223.6	1227.5
57.5°	7418.3	6676.4	4856.3	3338.2	2256.1	1640.4	1326.9	1166.3	1116.6	1112.7	1116.6
60°	7785.4	6921.2	4886.9	3227.3	2072.5	1468.4	1170.1	1047.7	1013.3	1032.4	1036.3
62.5°	8095.1	7077.9	4871.6	3078.2	1885.2	1303.9	1043.9	956.0	933.0	971.3	975.1
65°	8274.8	7127.7	4764.5	2864.1	1682.5	1143.3	925.4	829.8	818.3	841.2	852.7
67.5°	8037.7	6817.9	4473.9	2569.6	1456.9	994.2	810.7	734.2	715.1	734.2	734.2
70°	7123.8	5907.8	3785.6	2103.1	1208.3	848.9	703.6	650.1	634.8	650.1	646.2
72.5°	5934.6	4913.6	2982.6	1640.4	952.1	715.1	611.8	562.1	546.8	531.5	523.9
75°	4603.9	3732.1	2164.3	1204.5	718.9	573.6	512.4	466.5	428.3	443.6	435.9
77.5°	3372.6	2619.3	1533.4	833.6	516.2	443.6	401.5	367.1	340.3	370.9	367.1
80°	2171.9	1694.0	1024.8	558.3	355.6	309.7	294.4	275.3	302.1	393.9	401.5
82.5°	1326.9	1074.5	611.8	363.3	233.3	206.5	191.2	191.2	309.7	340.3	344.1
85°	592.7	569.8	332.7	187.4	130.0	118.5	107.1	137.7	126.2	91.8	95.6
87.5°	95.6	99.4	72.7	65.0	49.7	49.7	38.2	26.8	19.1	11.5	11.5
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)