

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: P841294

Luminaire Tested: **ARCH4-160-722-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841294
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-160-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1305mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22811 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 160.7
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

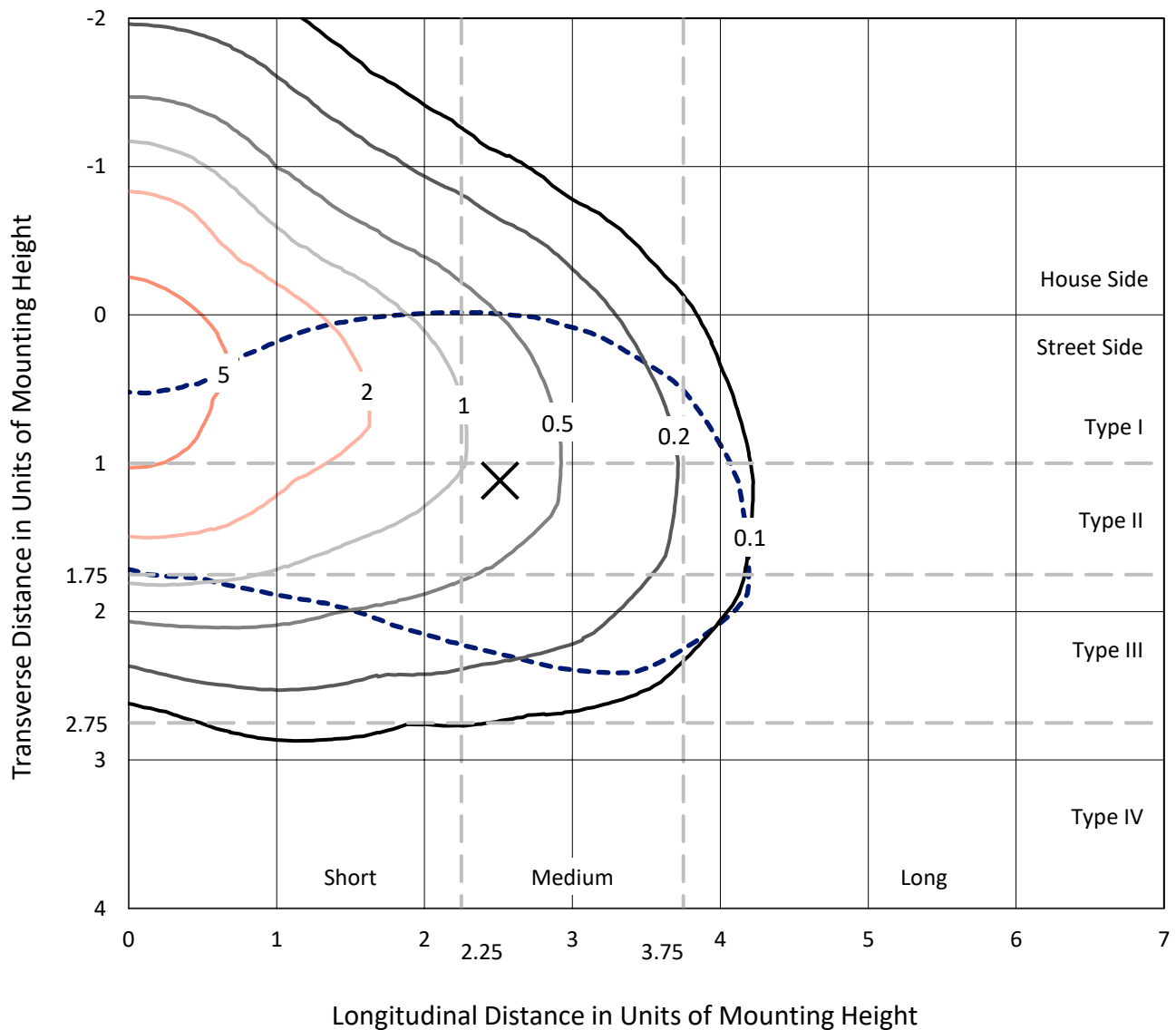


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Iso-Footcandle Lines of Horizontal Illumination

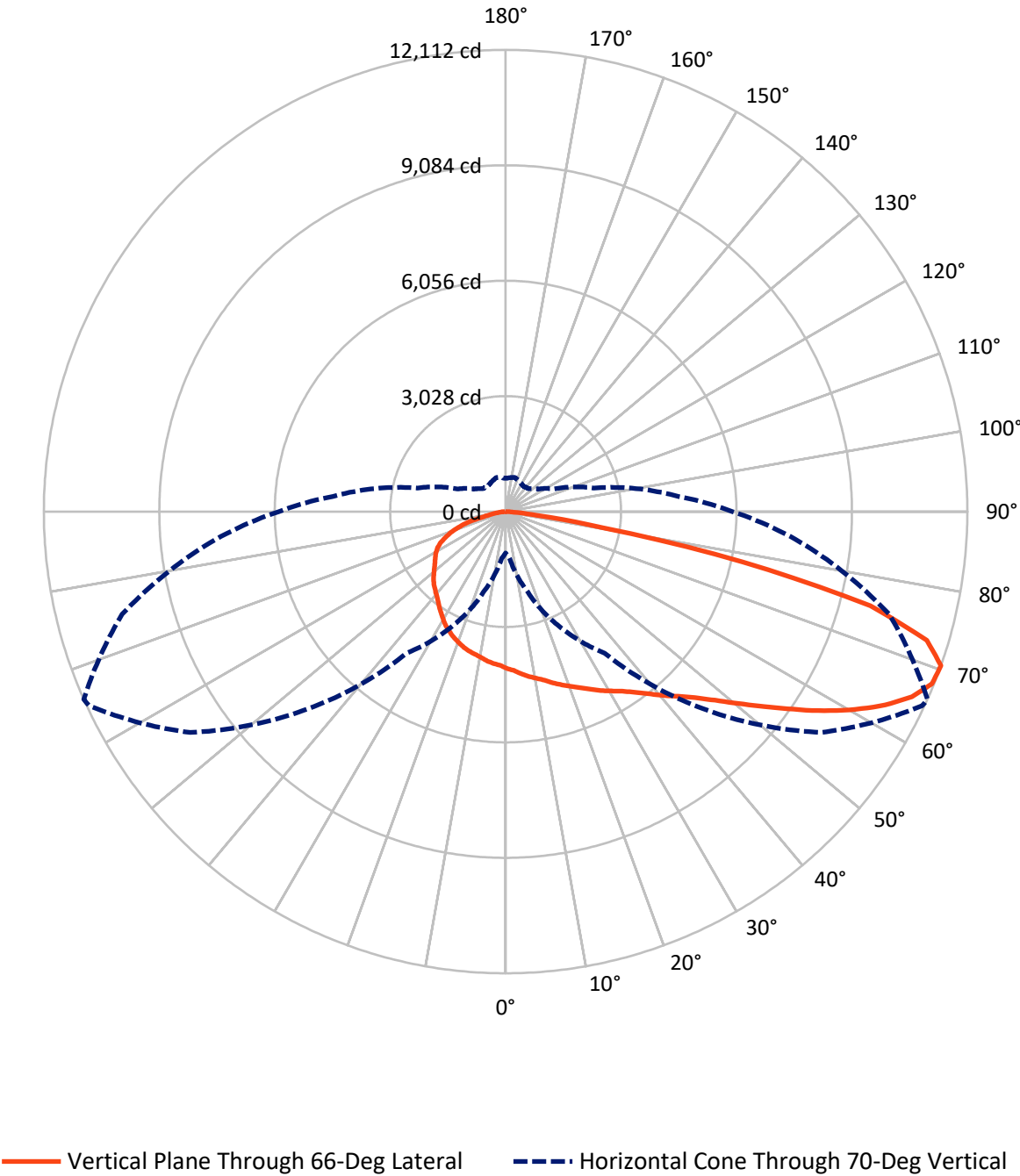
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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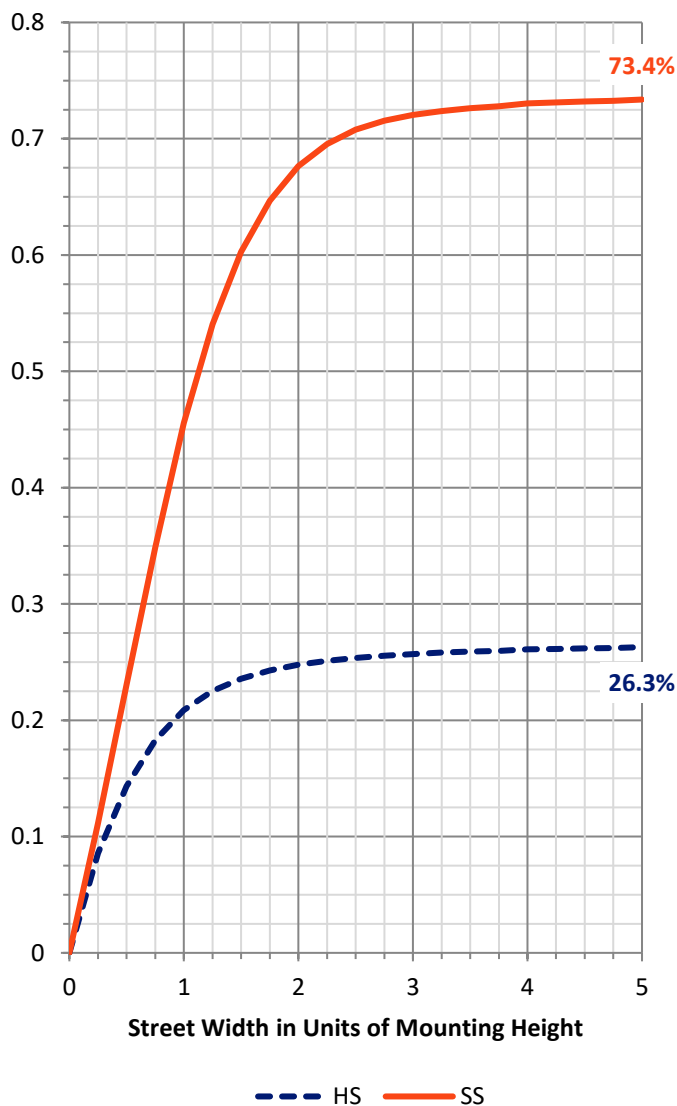
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6044.4	0.0	6044.4
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	16766.6	0.0	16766.6
	% Fixture	73.5	0.0	73.5
Total	Lumens	22811.0	0.0	22811.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.6	1.7
10°-20°	1186.6	5.2
20°-30°	1989.2	8.7
30°-40°	2978.4	13.1
40°-50°	3982.2	17.5
50°-60°	4649.3	20.4
60°-70°	4623.0	20.3
70°-80°	2736.9	12.0
80°-90°	269.8	1.2
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°	22811.0	100.0
0°-180°	22811.0	100.0

Coefficient of Utilization



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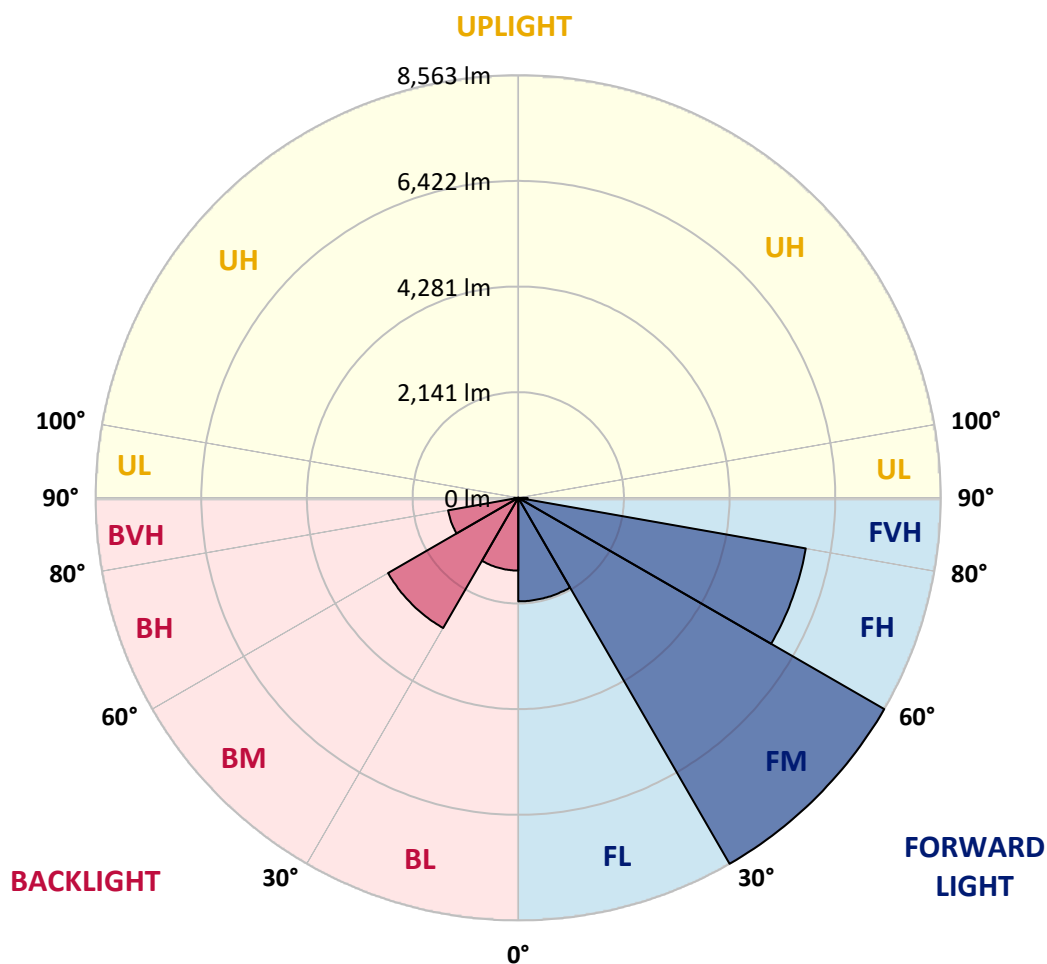
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2098.0	9.2			
FM	(30°-60°)	8562.9	37.5			
FH	(60°-80°)	5916.1	25.9			G3/7500
FVH	(80°-90°)	189.6	0.8			G2/225
BL	(0°-30°)	1473.4	6.5	B3/2500		
BM	(30°-60°)	3047.0	13.4	B3/5000		
BH	(60°-80°)	1443.9	6.3	B3/2500		G3/2500
BVH	(80°-90°)	80.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4116.9	4116.9	4116.9	4116.9	4116.9	4116.9	4116.9	4116.9	4116.9	4116.9	4116.9
2.5°	4268.2	4261.5	4258.1	4244.7	4214.4	4227.9	4197.6	4177.4	4174.0	4127.0	4100.0
5°	4443.1	4439.8	4433.0	4412.8	4365.8	4372.5	4322.0	4285.0	4274.9	4201.0	4143.8
7.5°	4591.1	4584.4	4581.0	4554.1	4503.7	4500.3	4439.8	4385.9	4369.1	4268.2	4180.8
10°	4705.5	4695.4	4702.1	4675.2	4621.4	4611.3	4533.9	4463.3	4446.5	4318.7	4197.6
12.5°	4803.0	4796.3	4806.4	4782.8	4739.1	4729.0	4651.7	4560.8	4540.7	4392.7	4234.6
15°	4910.6	4887.1	4907.3	4897.2	4866.9	4863.6	4792.9	4692.0	4665.1	4486.8	4291.8
17.5°	4967.8	4954.4	4977.9	4981.3	4967.8	4991.4	4924.1	4803.0	4779.5	4574.3	4342.2
20°	5008.2	4988.0	5014.9	5035.1	5045.2	5092.3	5038.5	4920.7	4893.8	4658.4	4389.3
22.5°	5146.1	5102.4	5105.7	5119.2	5125.9	5193.2	5159.5	5045.2	5018.3	4762.6	4446.5
25°	5492.5	5405.1	5347.9	5307.5	5260.4	5317.6	5297.4	5186.4	5162.9	4887.1	4517.1
27.5°	6030.7	5919.7	5805.3	5687.6	5502.6	5479.1	5445.4	5344.5	5317.6	5011.5	4587.7
30°	6642.8	6531.8	6397.3	6208.9	5862.5	5680.9	5603.5	5492.5	5462.2	5122.5	4655.0
32.5°	7251.6	7154.1	7019.5	6790.8	6296.4	5926.4	5761.6	5647.2	5617.0	5243.6	4735.7
35°	7725.9	7665.3	7577.9	7292.0	6726.9	6215.7	5990.3	5852.4	5818.8	5435.3	4883.7
37.5°	8109.3	8065.6	7991.6	7692.2	7039.7	6504.9	6252.7	6094.6	6057.6	5643.9	5041.8
40°	8674.3	8560.0	8499.4	8065.6	7312.1	6767.3	6548.6	6383.8	6343.5	5865.9	5169.6
42.5°	9155.3	9071.2	8997.2	8398.5	7571.1	6992.6	6827.8	6676.5	6622.6	6084.5	5307.5
45°	9236.0	9269.7	9232.7	8563.4	7981.5	7214.6	7110.3	7012.8	6962.3	6380.5	5516.1
47.5°	9239.4	9239.4	9020.8	8657.5	8489.4	7463.5	7413.0	7446.7	7392.9	6757.2	5765.0
50°	8997.2	9041.0	8926.6	8681.1	8623.9	7712.4	7783.0	7964.7	7910.8	7157.4	6034.0
52.5°	8496.1	8640.7	8637.3	8644.1	8428.8	7924.3	8173.2	8586.9	8496.1	7608.1	6319.9
55°	7611.5	7900.8	8159.7	8381.7	8260.6	8052.1	8650.8	9249.5	9155.3	8112.6	6609.2
57.5°	6854.7	7039.7	7362.6	7991.6	8062.2	8163.1	9098.1	9942.4	9858.3	8671.0	6911.9
60°	5990.3	6245.9	6568.8	7463.5	7820.0	8307.7	9589.2	10618.4	10537.7	9236.0	7204.5
62.5°	4661.7	4991.4	5637.1	6652.9	7466.9	8398.5	9976.0	11213.8	11176.8	9770.8	7466.9
65°	3249.1	3541.7	4446.5	5657.3	6905.2	8358.2	10285.4	11745.2	11711.5	10208.1	7651.9
67.5°	1897.0	2236.7	3259.2	4554.1	5912.9	8079.0	10386.3	12058.0	12058.0	10473.8	7702.3
70°	1083.0	1241.1	2149.2	3319.7	4533.9	7308.8	10103.8	12054.6	12111.8	10413.2	7493.8
72.5°	756.8	827.4	1446.3	2233.3	3074.2	5912.9	9363.9	11472.7	11550.1	9841.5	6780.7
75°	588.6	639.1	1019.1	1523.6	1937.3	4016.0	7746.0	9673.3	9878.5	8388.5	5482.4
77.5°	447.3	484.3	595.3	951.9	1241.1	2307.3	5112.4	6343.5	6356.9	5136.0	2939.7
80°	326.3	363.3	396.9	581.9	659.2	1079.7	1930.6	2650.4	2576.4	2485.6	1590.9
82.5°	195.1	232.1	242.2	316.2	322.9	460.8	676.1	854.3	820.7	1093.1	746.7
85°	84.1	117.7	124.4	144.6	137.9	188.4	269.1	225.4	201.8	232.1	161.4
87.5°	20.2	33.6	33.6	37.0	30.3	47.1	50.5	37.0	33.6	40.4	40.4
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°	4116.9	4116.9	4116.9	4116.9	4116.9	4116.9	4116.9	4116.9	4116.9	4116.9	4116.9
2.5°	4093.3	4083.2	4086.6	4029.4	4012.6	3995.8	3985.7	3979.0	3972.2	3982.3	3992.4
5°	4123.6	4100.0	4073.1	3989.1	3955.4	3918.4	3891.5	3868.0	3857.9	3857.9	3868.0
7.5°	4147.1	4106.8	4049.6	3938.6	3878.1	3827.6	3783.9	3753.6	3736.8	3736.8	3746.9
10°	4150.5	4093.3	4002.5	3868.0	3787.2	3713.3	3662.8	3629.2	3605.6	3605.6	3612.3
12.5°	4170.7	4093.3	3975.6	3814.2	3713.3	3622.4	3561.9	3511.4	3501.4	3501.4	3508.1
15°	4204.3	4110.1	3958.8	3767.1	3646.0	3541.7	3474.4	3420.6	3400.5	3413.9	3417.3
17.5°	4234.6	4120.2	3928.5	3706.5	3561.9	3447.5	3373.5	3326.5	3299.5	3329.8	3329.8
20°	4254.8	4120.2	3884.8	3629.2	3471.1	3343.3	3272.6	3215.5	3195.3	3232.3	3235.6
22.5°	4285.0	4116.9	3837.7	3551.8	3373.5	3239.0	3168.4	3124.6	3114.6	3154.9	3168.4
25°	4318.7	4123.6	3787.2	3464.4	3265.9	3134.7	3080.9	3060.7	3067.5	3117.9	3134.7
27.5°	4355.7	4137.0	3736.8	3366.8	3148.2	3030.5	3000.2	3010.3	3037.2	3101.1	3121.3
30°	4389.3	4140.4	3666.2	3252.5	3013.7	2902.7	2916.1	2959.8	3000.2	3064.1	3087.6
32.5°	4433.0	4143.8	3592.2	3128.0	2869.0	2788.3	2848.8	2919.5	2959.8	3020.4	3047.3
35°	4540.7	4201.0	3535.0	3006.9	2734.5	2690.8	2791.7	2882.5	2906.0	2959.8	2983.4
37.5°	4665.1	4295.1	3504.7	2882.5	2603.3	2593.2	2721.0	2811.8	2818.6	2852.2	2875.8
40°	4742.5	4335.5	3471.1	2778.2	2485.6	2492.3	2623.5	2694.1	2680.7	2704.2	2721.0
42.5°	4819.8	4348.9	3400.5	2690.8	2374.6	2381.3	2482.2	2532.7	2539.4	2589.9	2613.4
45°	4951.0	4385.9	3323.1	2610.0	2273.7	2250.1	2310.7	2378.0	2465.4	2563.0	2589.9
47.5°	5125.9	4463.3	3242.4	2512.5	2176.2	2098.8	2122.3	2240.1	2330.9	2421.7	2438.5
50°	5304.2	4540.7	3168.4	2394.8	2078.6	1937.3	1947.4	2055.1	2129.1	2199.7	2209.8
52.5°	5479.1	4607.9	3104.5	2283.8	1967.6	1745.6	1786.0	1897.0	1947.4	1981.1	1991.2
55°	5654.0	4665.1	3047.3	2189.6	1839.8	1594.3	1631.3	1735.5	1786.0	1802.8	1809.5
57.5°	5835.6	4732.4	3003.6	2108.9	1695.2	1459.7	1483.3	1557.3	1604.4	1624.5	1617.8
60°	5986.9	4789.6	2980.0	2024.8	1550.6	1335.3	1328.6	1395.8	1463.1	1483.3	1476.6
62.5°	6104.7	4826.6	2943.0	1917.2	1422.7	1210.8	1177.2	1264.7	1335.3	1348.7	1358.8
65°	6168.6	4829.9	2852.2	1779.3	1291.6	1076.3	1052.8	1140.2	1183.9	1197.4	1197.4
67.5°	6158.5	4776.1	2673.9	1594.3	1170.5	955.2	935.0	988.9	1052.8	1062.9	1052.8
70°	5949.9	4554.1	2388.1	1399.2	1025.9	847.6	810.6	864.4	924.9	888.0	871.1
72.5°	5358.0	3979.0	1967.6	1183.9	864.4	713.1	696.2	750.0	753.4	760.1	743.3
75°	4227.9	2963.2	1473.2	921.6	699.6	598.7	595.3	585.2	598.7	625.6	605.4
77.5°	2219.9	1479.9	797.1	565.1	507.9	481.0	457.4	454.1	494.4	511.2	491.1
80°	1204.1	830.8	457.4	339.7	309.4	312.8	343.1	336.3	380.1	390.2	373.3
82.5°	524.7	393.5	225.4	205.2	205.2	201.8	211.9	235.4	282.5	282.5	225.4
85°	114.4	97.5	87.4	100.9	114.4	114.4	114.4	114.4	80.7	43.7	30.3
87.5°	37.0	37.0	37.0	40.4	43.7	43.7	37.0	26.9	16.8	3.4	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)