

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: P835987

Luminaire Tested: **ARCH3-120-740-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-120-740-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19264 lumens
Efficiency: N/A
Efficacy: 157.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 122.7
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



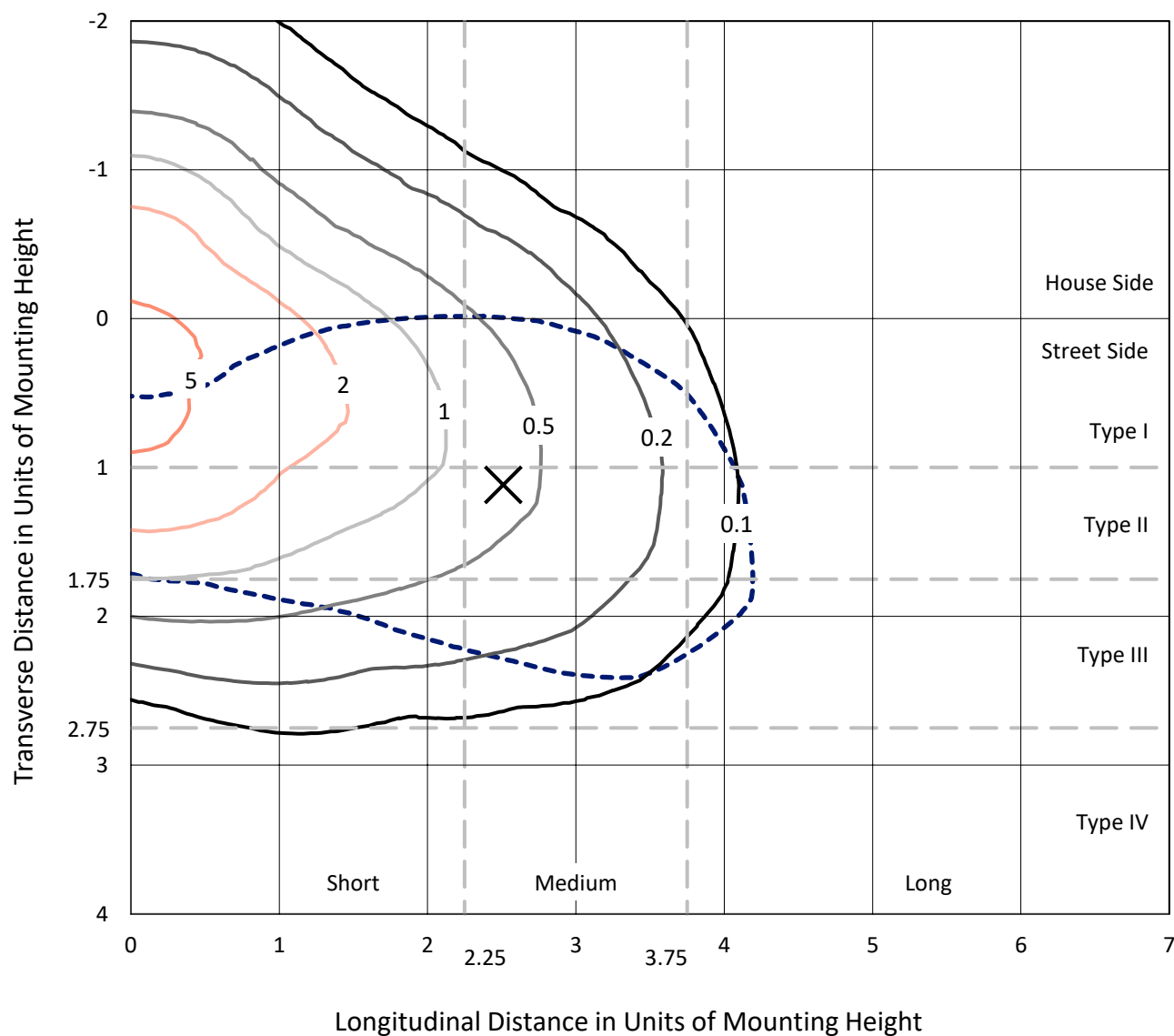
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

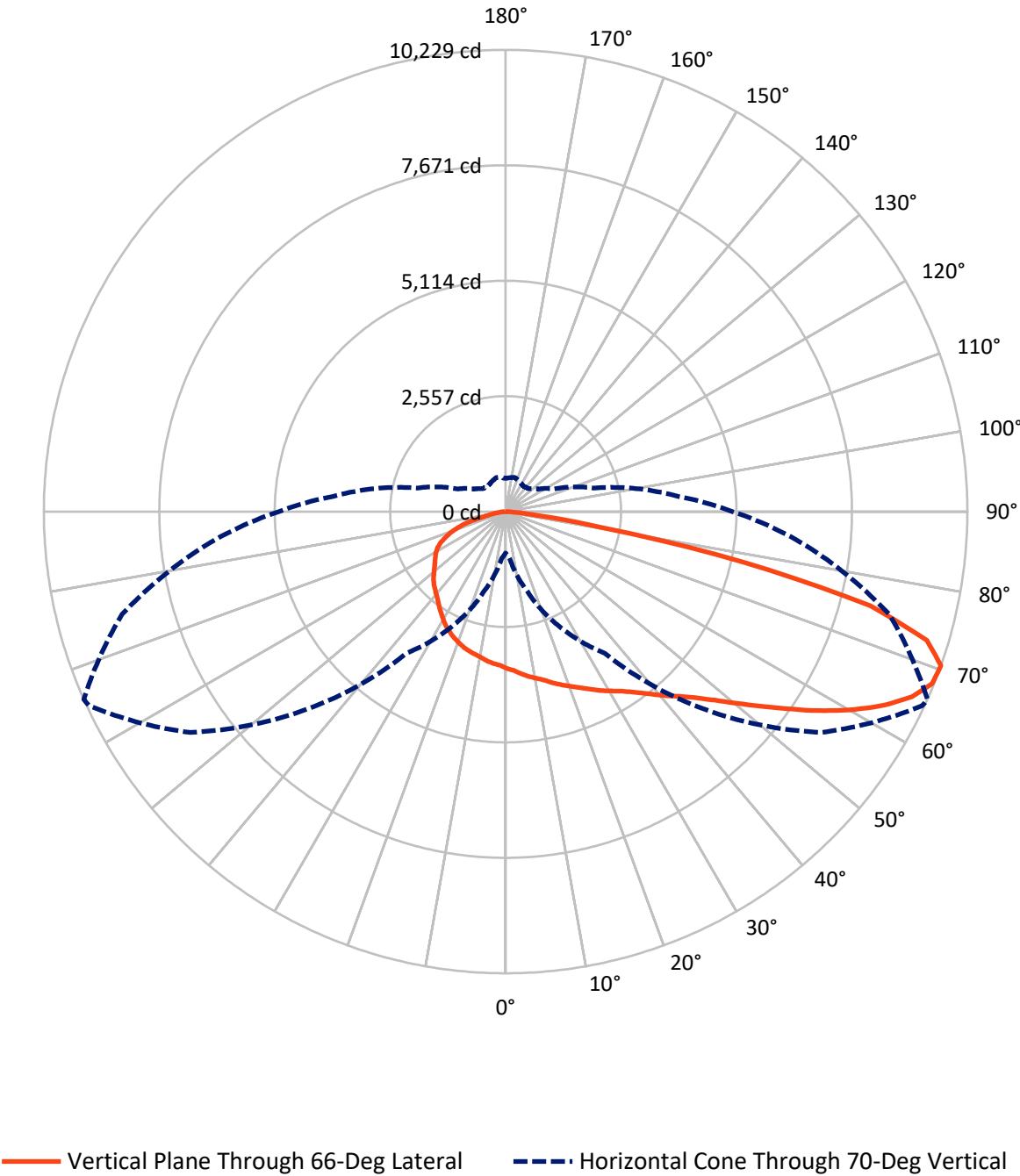
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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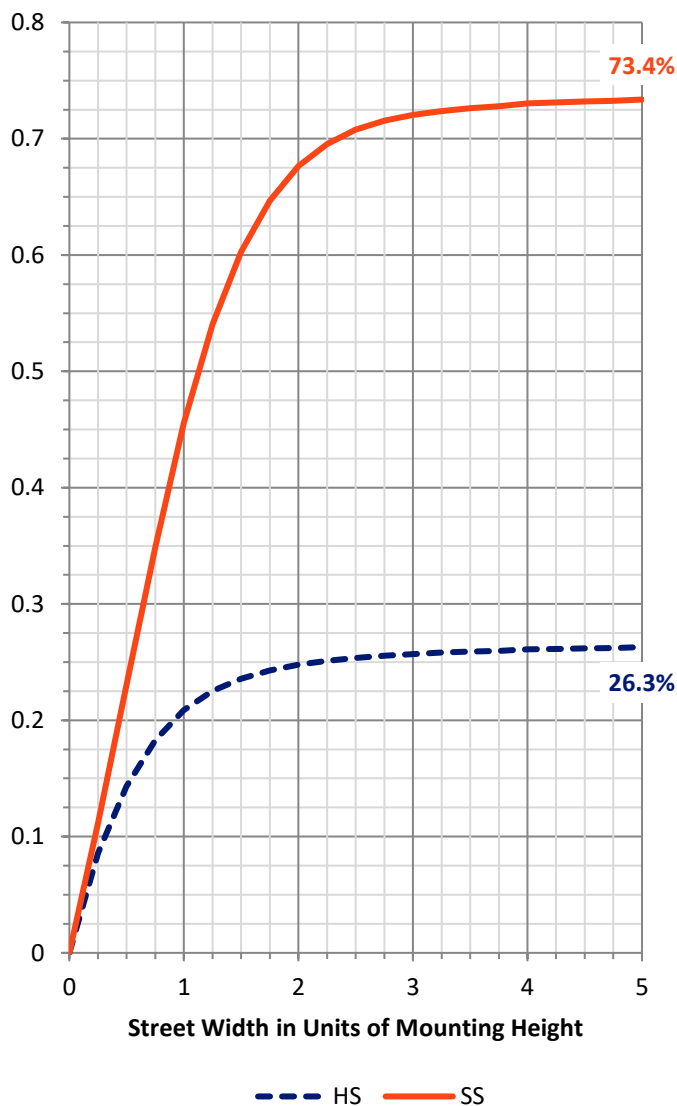
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5104.5	0.0	5104.5
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	14159.5	0.0	14159.5
	% Fixture	73.5	0.0	73.5
Total	Lumens	19264.0	0.0	19264.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.1	1.7
10°-20°	1002.1	5.2
20°-30°	1679.9	8.7
30°-40°	2515.3	13.1
40°-50°	3363.0	17.5
50°-60°	3926.4	20.4
60°-70°	3904.2	20.3
70°-80°	2311.3	12.0
80°-90°	227.8	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°	19264.0	100.0
0°-180°	19264.0	100.0

Coefficient of Utilization



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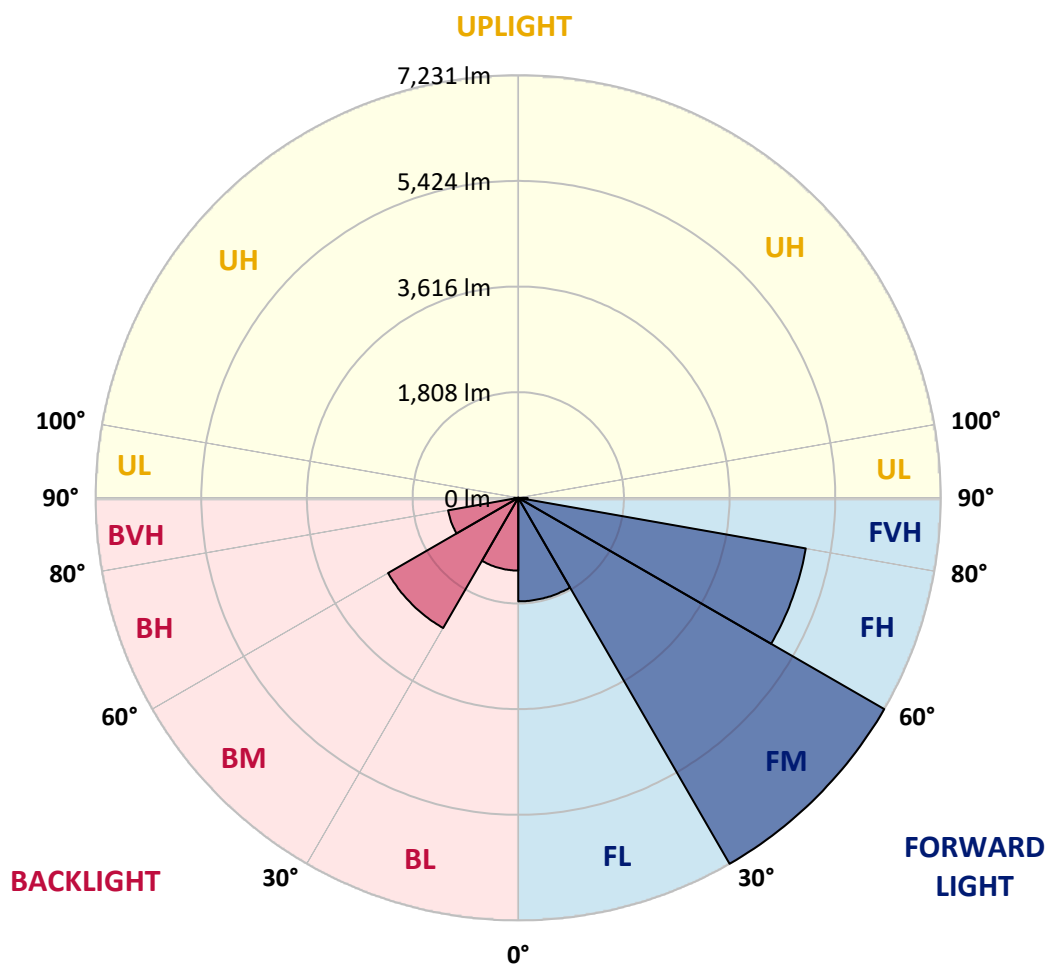
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1771.8	9.2			
FM	(30°-60°)	7231.4	37.5			
FH	(60°-80°)	4996.2	25.9			G2/5000
FVH	(80°-90°)	160.1	0.8			G2/225
BL	(0°-30°)	1244.3	6.5	B3/2500		
BM	(30°-60°)	2573.2	13.4	B3/5000		
BH	(60°-80°)	1219.3	6.3	B3/2500		G3/2500
BVH	(80°-90°)	67.7	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°	3476.7	3476.7	3476.7	3476.7	3476.7	3476.7	3476.7	3476.7	3476.7	3476.7	3476.7
2.5°	3604.5	3598.9	3596.0	3584.7	3559.1	3570.4	3544.9	3527.8	3525.0	3485.2	3462.5
5°	3752.2	3749.4	3743.7	3726.7	3686.9	3692.6	3650.0	3618.7	3610.2	3547.7	3499.4
7.5°	3877.2	3871.5	3868.7	3846.0	3803.4	3800.5	3749.4	3703.9	3689.7	3604.5	3530.7
10°	3973.8	3965.3	3971.0	3948.2	3902.8	3894.3	3828.9	3769.3	3755.1	3647.1	3544.9
12.5°	4056.2	4050.5	4059.0	4039.1	4002.2	3993.7	3928.3	3851.7	3834.6	3709.6	3576.1
15°	4147.1	4127.2	4144.2	4135.7	4110.1	4107.3	4047.6	3962.4	3939.7	3789.2	3624.4
17.5°	4195.3	4184.0	4203.9	4206.7	4195.3	4215.2	4158.4	4056.2	4036.3	3863.0	3667.0
20°	4229.4	4212.4	4235.1	4252.2	4260.7	4300.4	4255.0	4155.6	4132.9	3934.0	3706.8
22.5°	4345.9	4309.0	4311.8	4323.2	4328.8	4385.7	4357.3	4260.7	4238.0	4022.1	3755.1
25°	4638.5	4564.6	4516.3	4482.2	4442.5	4490.8	4473.7	4380.0	4360.1	4127.2	3814.7
27.5°	5092.9	4999.2	4902.6	4803.2	4647.0	4627.1	4598.7	4513.5	4490.8	4232.3	3874.4
30°	5609.9	5516.2	5402.5	5243.5	4950.9	4797.5	4732.2	4638.5	4612.9	4326.0	3931.2
32.5°	6124.0	6041.6	5928.0	5734.9	5317.3	5004.9	4865.7	4769.1	4743.6	4428.3	3999.4
35°	6524.5	6473.4	6399.5	6158.1	5680.9	5249.2	5058.8	4942.4	4914.0	4590.2	4124.3
37.5°	6848.3	6811.4	6748.9	6496.1	5945.1	5493.4	5280.4	5146.9	5115.7	4766.3	4257.8
40°	7325.5	7229.0	7177.8	6811.4	6175.1	5715.0	5530.4	5391.2	5357.1	4953.7	4365.8
42.5°	7731.7	7660.7	7598.2	7092.6	6393.9	5905.3	5766.1	5638.3	5592.9	5138.4	4482.2
45°	7799.9	7828.3	7797.0	7231.8	6740.4	6092.8	6004.7	5922.3	5879.7	5388.3	4658.3
47.5°	7802.7	7802.7	7618.1	7311.3	7169.3	6303.0	6260.4	6288.8	6243.3	5706.5	4868.5
50°	7598.2	7635.1	7538.6	7331.2	7282.9	6513.2	6572.8	6726.2	6680.7	6044.5	5095.8
52.5°	7175.0	7297.1	7294.3	7300.0	7118.2	6692.1	6902.3	7251.7	7175.0	6425.1	5337.2
55°	6427.9	6672.2	6890.9	7078.4	6976.2	6800.0	7305.6	7811.2	7731.7	6851.2	5581.5
57.5°	5788.8	5945.1	6217.7	6748.9	6808.6	6893.8	7683.4	8396.4	8325.4	7322.7	5837.1
60°	5058.8	5274.7	5547.4	6303.0	6604.1	7015.9	8098.1	8967.3	8899.1	7799.9	6084.2
62.5°	3936.9	4215.2	4760.6	5618.4	6305.8	7092.6	8424.8	9470.1	9438.8	8251.5	6305.8
65°	2743.9	2991.0	3755.1	4777.6	5831.4	7058.5	8686.1	9918.9	9890.5	8620.8	6462.0
67.5°	1602.0	1888.9	2752.4	3846.0	4993.5	6822.8	8771.3	10183.0	10183.0	8845.2	6504.6
70°	914.6	1048.1	1815.0	2803.5	3828.9	6172.3	8532.7	10180.2	10228.5	8794.0	6328.5
72.5°	639.1	698.8	1221.4	1886.1	2596.2	4993.5	7907.8	9688.8	9754.1	8311.2	5726.4
75°	497.1	539.7	860.7	1286.7	1636.1	3391.5	6541.6	8169.1	8342.4	7084.1	4629.9
77.5°	377.8	409.0	502.8	803.8	1048.1	1948.6	4317.5	5357.1	5368.5	4337.4	2482.6
80°	275.5	306.8	335.2	491.4	556.7	911.8	1630.4	2238.3	2175.8	2099.1	1343.5
82.5°	164.7	196.0	204.5	267.0	272.7	389.1	570.9	721.5	693.1	923.1	630.6
85°	71.0	99.4	105.1	122.1	116.5	159.1	227.2	190.3	170.4	196.0	136.3
87.5°	17.0	28.4	28.4	31.2	25.6	39.8	42.6	31.2	28.4	34.1	34.1
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°	3476.7	3476.7	3476.7	3476.7	3476.7	3476.7	3476.7	3476.7	3476.7	3476.7	3476.7
2.5°	3456.8	3448.3	3451.1	3402.9	3388.7	3374.5	3365.9	3360.3	3354.6	3363.1	3371.6
5°	3482.4	3462.5	3439.8	3368.8	3340.4	3309.1	3286.4	3266.5	3258.0	3258.0	3266.5
7.5°	3502.3	3468.2	3419.9	3326.2	3275.0	3232.4	3195.5	3169.9	3155.7	3155.7	3164.3
10°	3505.1	3456.8	3380.1	3266.5	3198.3	3135.9	3093.3	3064.8	3045.0	3045.0	3050.6
12.5°	3522.2	3456.8	3357.4	3221.1	3135.9	3059.2	3008.0	2965.4	2956.9	2956.9	2962.6
15°	3550.6	3471.0	3343.2	3181.3	3079.1	2991.0	2934.2	2888.7	2871.7	2883.1	2885.9
17.5°	3576.1	3479.6	3317.6	3130.2	3008.0	2911.5	2849.0	2809.2	2786.5	2812.0	2812.0
20°	3593.2	3479.6	3280.7	3064.8	2931.3	2823.4	2763.8	2715.5	2698.4	2729.7	2732.5
22.5°	3618.7	3476.7	3241.0	2999.5	2849.0	2735.4	2675.7	2638.8	2630.3	2664.3	2675.7
25°	3647.1	3482.4	3198.3	2925.7	2758.1	2647.3	2601.9	2584.8	2590.5	2633.1	2647.3
27.5°	3678.4	3493.8	3155.7	2843.3	2658.7	2559.2	2533.7	2542.2	2564.9	2618.9	2635.9
30°	3706.8	3496.6	3096.1	2746.7	2545.0	2451.3	2462.7	2499.6	2533.7	2587.7	2607.5
32.5°	3743.7	3499.4	3033.6	2641.6	2422.9	2354.7	2405.9	2465.5	2499.6	2550.7	2573.4
35°	3834.6	3547.7	2985.3	2539.4	2309.3	2272.4	2357.6	2434.3	2454.2	2499.6	2519.5
37.5°	3939.7	3627.3	2959.8	2434.3	2198.5	2190.0	2297.9	2374.6	2380.3	2408.7	2428.6
40°	4005.0	3661.3	2931.3	2346.2	2099.1	2104.8	2215.6	2275.2	2263.8	2283.7	2297.9
42.5°	4070.4	3672.7	2871.7	2272.4	2005.4	2011.0	2096.3	2138.9	2144.5	2187.1	2207.0
45°	4181.1	3703.9	2806.4	2204.2	1920.1	1900.3	1951.4	2008.2	2082.1	2164.4	2187.1
47.5°	4328.8	3769.3	2738.2	2121.8	1837.8	1772.4	1792.3	1891.7	1968.4	2045.1	2059.3
50°	4479.4	3834.6	2675.7	2022.4	1755.4	1636.1	1644.6	1735.5	1798.0	1857.7	1866.2
52.5°	4627.1	3891.4	2621.7	1928.7	1661.7	1474.2	1508.3	1602.0	1644.6	1673.0	1681.5
55°	4774.8	3939.7	2573.4	1849.1	1553.7	1346.4	1377.6	1465.7	1508.3	1522.5	1528.2
57.5°	4928.2	3996.5	2536.5	1781.0	1431.6	1232.8	1252.6	1315.1	1354.9	1371.9	1366.3
60°	5056.0	4044.8	2516.6	1710.0	1309.4	1127.7	1122.0	1178.8	1235.6	1252.6	1247.0
62.5°	5155.4	4076.0	2485.4	1619.1	1201.5	1022.6	994.2	1068.0	1127.7	1139.0	1147.5
65°	5209.4	4078.9	2408.7	1502.6	1090.7	908.9	889.1	962.9	999.8	1011.2	1011.2
67.5°	5200.9	4033.4	2258.2	1346.4	988.5	806.7	789.6	835.1	889.1	897.6	889.1
70°	5024.8	3846.0	2016.7	1181.6	866.3	715.8	684.5	730.0	781.1	749.9	735.7
72.5°	4524.8	3360.3	1661.7	999.8	730.0	602.2	588.0	633.4	636.3	641.9	627.7
75°	3570.4	2502.4	1244.1	778.3	590.8	505.6	502.8	494.2	505.6	528.3	511.3
77.5°	1874.7	1249.8	673.2	477.2	428.9	406.2	386.3	383.5	417.5	431.7	414.7
80°	1016.9	701.6	386.3	286.9	261.3	264.2	289.7	284.0	321.0	329.5	315.3
82.5°	443.1	332.3	190.3	173.3	173.3	170.4	178.9	198.8	238.6	238.6	190.3
85°	96.6	82.4	73.9	85.2	96.6	96.6	96.6	96.6	68.2	36.9	25.6
87.5°	31.2	31.2	31.2	34.1	36.9	36.9	31.2	22.7	14.2	2.8	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)