

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: P836320

Luminaire Tested: **ARCH3-170-727-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836320
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: ARCH3-170-727-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22312 lumens
Efficiency: N/A
Efficacy: 130.8 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): 170.6
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



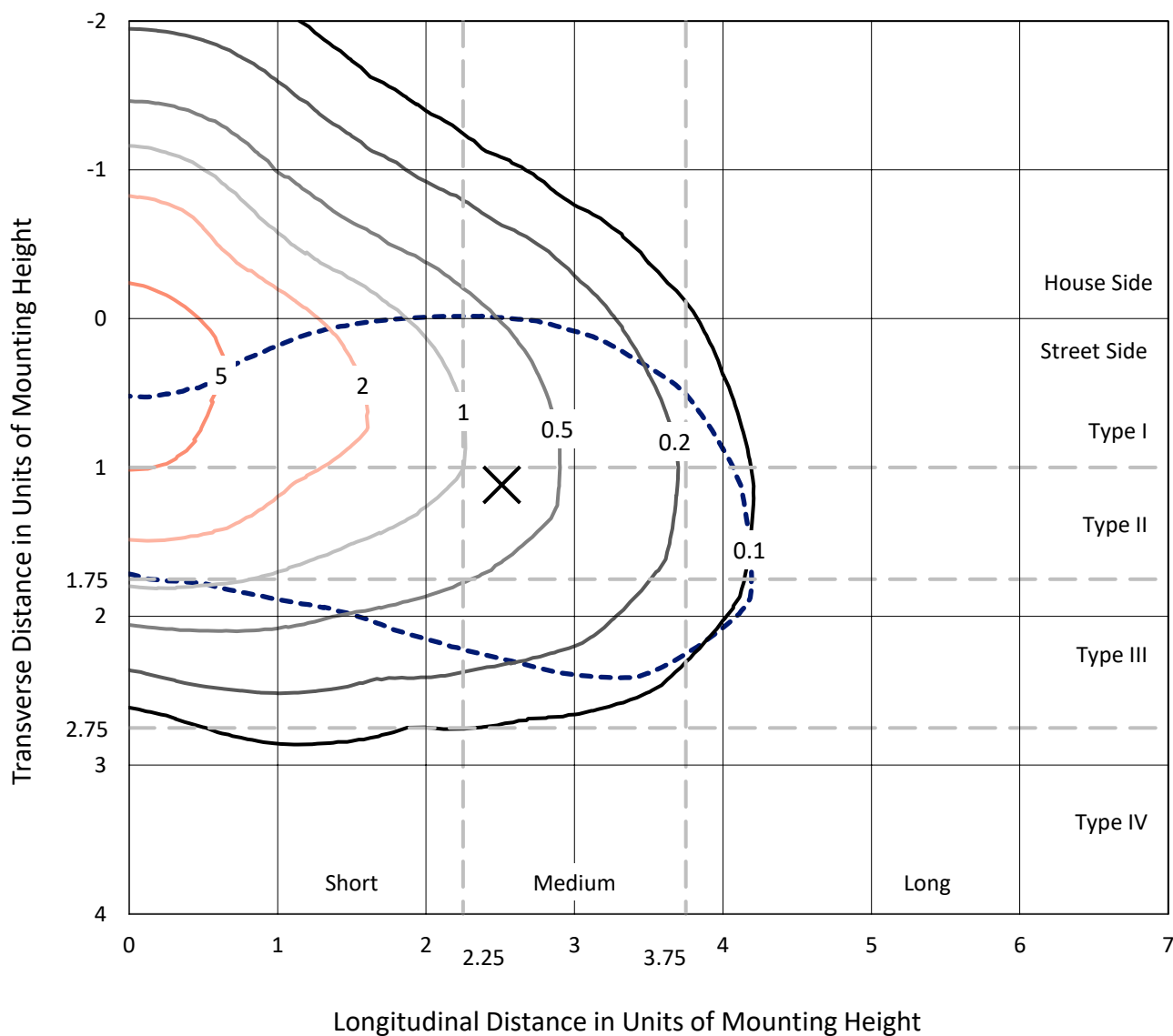
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

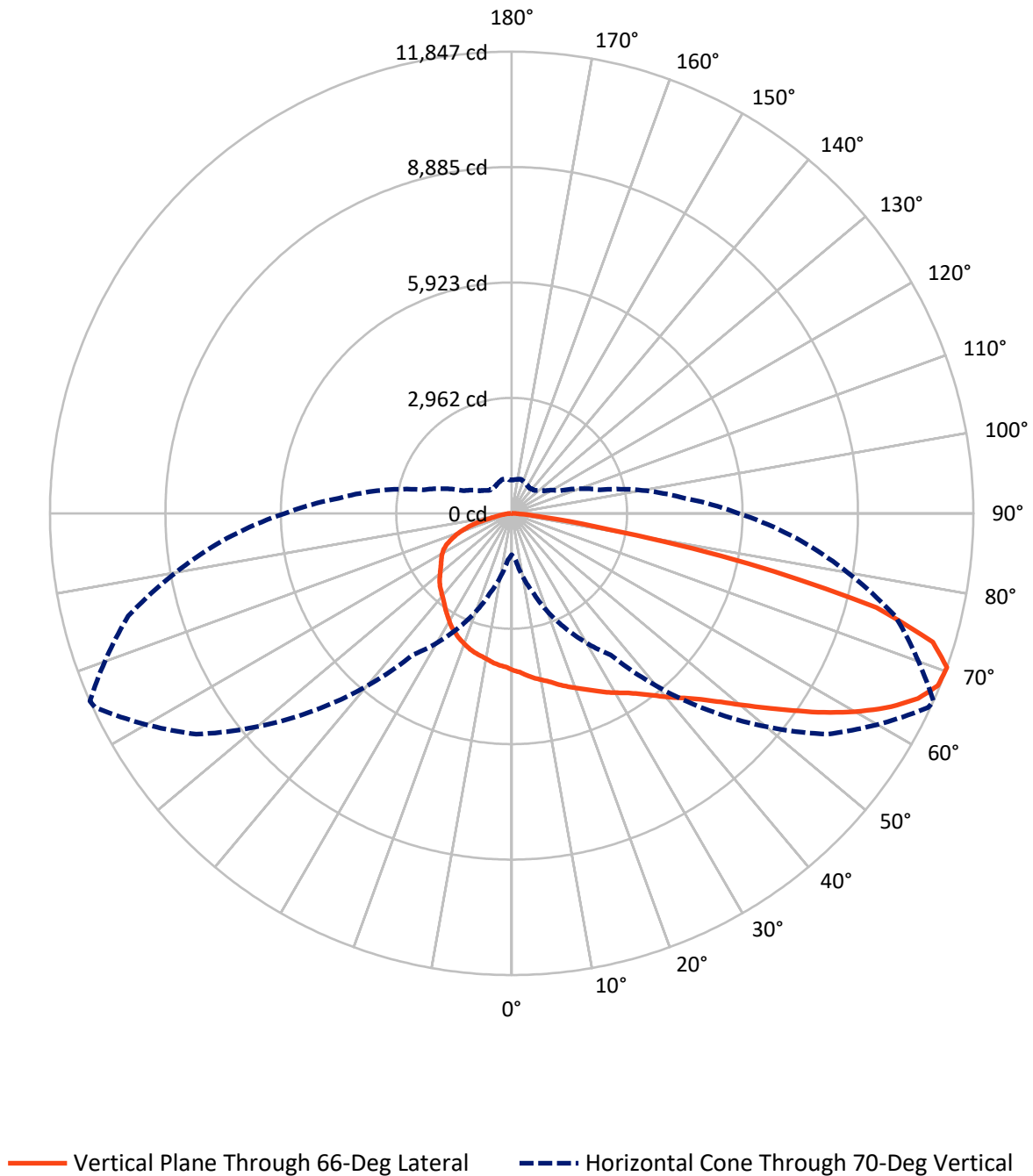
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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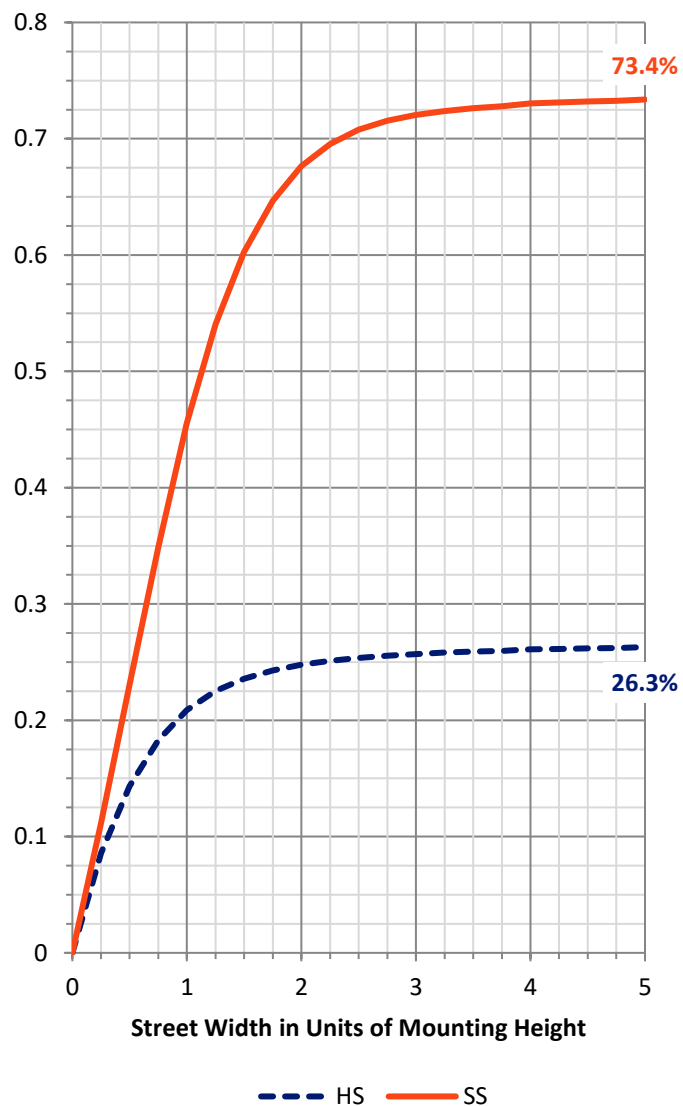
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5912.2	0.0	5912.2
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	16399.8	0.0	16399.8
	% Fixture	73.5	0.0	73.5
Total	Lumens	22312.0	0.0	22312.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.9	1.7
10°-20°	1160.7	5.2
20°-30°	1945.7	8.7
30°-40°	2913.3	13.1
40°-50°	3895.1	17.5
50°-60°	4547.6	20.4
60°-70°	4521.9	20.3
70°-80°	2677.0	12.0
80°-90°	263.9	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°	22312.0	100.0
0°-180°	22312.0	100.0

Coefficient of Utilization



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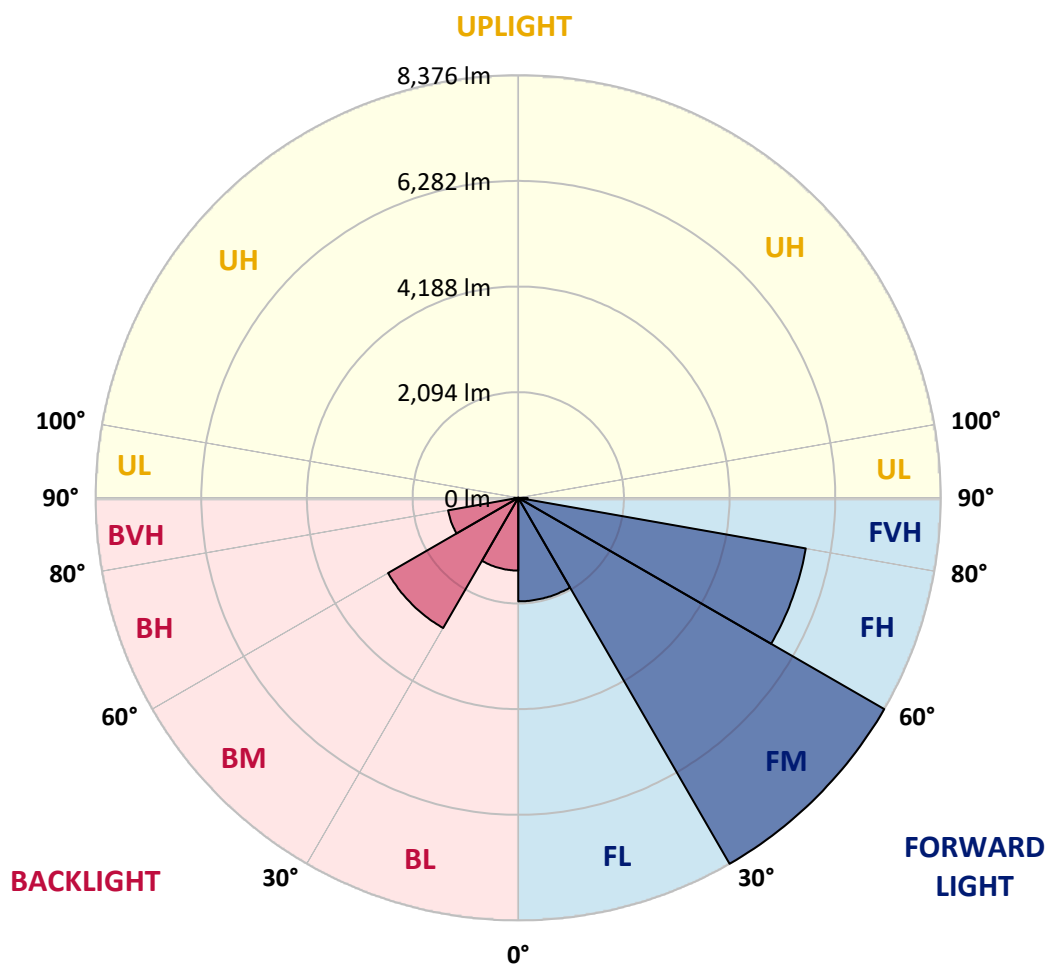
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2052.1	9.2			
FM	(30°-60°)	8375.6	37.5			
FH	(60°-80°)	5786.7	25.9			G3/7500
FVH	(80°-90°)	185.4	0.8			G2/225
BL	(0°-30°)	1441.1	6.5	B3/2500		
BM	(30°-60°)	2980.3	13.4	B3/5000		
BH	(60°-80°)	1412.3	6.3	B3/2500		G3/2500
BVH	(80°-90°)	78.4	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°	4026.8	4026.8	4026.8	4026.8	4026.8	4026.8	4026.8	4026.8	4026.8	4026.8	4026.8
2.5°	4174.9	4168.3	4165.0	4151.8	4122.2	4135.4	4105.8	4086.0	4082.7	4036.7	4010.4
5°	4345.9	4342.6	4336.1	4316.3	4270.3	4276.8	4227.5	4191.3	4181.4	4109.1	4053.1
7.5°	4490.7	4484.1	4480.8	4454.5	4405.1	4401.9	4342.6	4290.0	4273.5	4174.9	4089.3
10°	4602.5	4592.7	4599.2	4572.9	4520.3	4510.4	4434.8	4365.7	4349.2	4224.2	4105.8
12.5°	4697.9	4691.4	4701.2	4678.2	4635.4	4625.6	4549.9	4461.1	4441.3	4296.6	4142.0
15°	4803.2	4780.2	4799.9	4790.1	4760.5	4757.2	4688.1	4589.4	4563.1	4388.7	4197.9
17.5°	4859.1	4846.0	4869.0	4872.3	4859.1	4882.2	4816.4	4697.9	4674.9	4474.2	4247.2
20°	4898.6	4878.9	4905.2	4924.9	4934.8	4980.9	4928.2	4813.1	4786.8	4556.5	4293.3
22.5°	5033.5	4990.7	4994.0	5007.2	5013.8	5079.6	5046.7	4934.8	4908.5	4658.5	4349.2
25°	5372.4	5286.8	5230.9	5191.4	5145.4	5201.3	5181.6	5073.0	5050.0	4780.2	4418.3
27.5°	5898.7	5790.2	5678.3	5563.2	5382.2	5359.2	5326.3	5227.6	5201.3	4901.9	4487.4
30°	6497.5	6388.9	6257.3	6073.1	5734.3	5556.6	5480.9	5372.4	5342.8	5010.5	4553.2
32.5°	7093.0	6997.6	6866.0	6642.3	6158.6	5796.8	5635.6	5523.7	5494.1	5128.9	4632.1
35°	7556.8	7497.6	7412.1	7132.5	6579.8	6079.7	5859.3	5724.4	5691.5	5316.4	4776.9
37.5°	7931.9	7889.1	7816.7	7523.9	6885.7	6362.6	6115.9	5961.3	5925.1	5520.4	4931.5
40°	8484.6	8372.7	8313.5	7889.1	7152.2	6619.2	6405.4	6244.2	6204.7	5737.5	5056.5
42.5°	8955.0	8872.8	8800.4	8214.8	7405.5	6839.7	6678.4	6530.4	6477.8	5951.4	5191.4
45°	9034.0	9066.9	9030.7	8376.0	7806.9	7056.8	6954.8	6859.4	6810.0	6240.9	5395.4
47.5°	9037.3	9037.3	8823.4	8468.1	8303.6	7300.2	7250.9	7283.8	7231.1	6609.4	5638.8
50°	8800.4	8843.2	8731.3	8491.2	8435.2	7543.7	7612.8	7790.4	7737.8	7000.9	5902.0
52.5°	8310.2	8451.7	8448.4	8455.0	8244.4	7750.9	7994.4	8399.1	8310.2	7441.7	6181.7
55°	7445.0	7727.9	7981.2	8198.4	8079.9	7876.0	8461.6	9047.2	8955.0	7935.2	6464.6
57.5°	6704.8	6885.7	7201.5	7816.7	7885.8	7984.5	8899.1	9724.9	9642.6	8481.3	6760.7
60°	5859.3	6109.3	6425.1	7300.2	7649.0	8126.0	9379.4	10386.1	10307.2	9034.0	7046.9
62.5°	4559.8	4882.2	5513.8	6507.4	7303.5	8214.8	9757.8	10968.4	10932.3	9557.1	7303.5
65°	3178.0	3464.2	4349.2	5533.6	6754.1	8175.3	10060.4	11488.2	11455.3	9984.8	7484.5
67.5°	1855.5	2187.8	3187.9	4454.5	5783.6	7902.3	10159.1	11794.2	11794.2	10244.7	7533.8
70°	1059.3	1214.0	2102.2	3247.1	4434.8	7148.9	9882.8	11790.9	11846.8	10185.5	7329.8
72.5°	740.2	809.3	1414.6	2184.5	3006.9	5783.6	9159.0	11221.8	11297.4	9626.2	6632.4
75°	575.7	625.1	996.8	1490.3	1895.0	3928.1	7576.6	9461.7	9662.4	8205.0	5362.5
77.5°	437.6	473.7	582.3	931.0	1214.0	2256.9	5000.6	6204.7	6217.9	5023.6	2875.4
80°	319.1	355.3	388.2	569.1	644.8	1056.1	1888.4	2592.4	2520.0	2431.2	1556.1
82.5°	190.8	227.0	236.9	309.2	315.8	450.7	661.3	835.6	802.7	1069.2	730.4
85°	82.2	115.1	121.7	141.5	134.9	184.2	263.2	220.4	197.4	227.0	157.9
87.5°	19.7	32.9	32.9	36.2	29.6	46.1	49.3	36.2	32.9	39.5	39.5
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°	4026.8	4026.8	4026.8	4026.8	4026.8	4026.8	4026.8	4026.8	4026.8	4026.8	4026.8
2.5°	4003.8	3993.9	3997.2	3941.3	3924.8	3908.4	3898.5	3891.9	3885.3	3895.2	3905.1
5°	4033.4	4010.4	3984.0	3901.8	3868.9	3832.7	3806.4	3783.4	3773.5	3773.5	3783.4
7.5°	4056.4	4016.9	3961.0	3852.4	3793.2	3743.9	3701.1	3671.5	3655.1	3655.1	3664.9
10°	4059.7	4003.8	3915.0	3783.4	3704.4	3632.0	3582.7	3549.8	3526.7	3526.7	3533.3
12.5°	4079.4	4003.8	3888.6	3730.7	3632.0	3543.2	3484.0	3434.6	3424.8	3424.8	3431.3
15°	4112.3	4020.2	3872.2	3684.7	3566.2	3464.2	3398.4	3345.8	3326.1	3339.2	3342.5
17.5°	4142.0	4030.1	3842.6	3625.4	3484.0	3372.1	3299.7	3253.7	3227.4	3257.0	3257.0
20°	4161.7	4030.1	3799.8	3549.8	3395.2	3270.1	3201.0	3145.1	3125.4	3161.6	3164.9
22.5°	4191.3	4026.8	3753.7	3474.1	3299.7	3168.2	3099.1	3056.3	3046.4	3085.9	3099.1
25°	4224.2	4033.4	3704.4	3388.6	3194.5	3066.2	3013.5	2993.8	3000.4	3049.7	3066.2
27.5°	4260.4	4046.5	3655.1	3293.2	3079.3	2964.2	2934.6	2944.4	2970.8	3033.3	3053.0
30°	4293.3	4049.8	3586.0	3181.3	2947.7	2839.2	2852.3	2895.1	2934.6	2997.1	3020.1
32.5°	4336.1	4053.1	3513.6	3059.6	2806.3	2727.3	2786.5	2855.6	2895.1	2954.3	2980.6
35°	4441.3	4109.1	3457.7	2941.1	2674.7	2631.9	2730.6	2819.4	2842.5	2895.1	2918.1
37.5°	4563.1	4201.2	3428.1	2819.4	2546.4	2536.5	2661.5	2750.3	2756.9	2789.8	2812.8
40°	4638.7	4240.6	3395.2	2717.4	2431.2	2437.8	2566.1	2635.2	2622.0	2645.1	2661.5
42.5°	4714.4	4253.8	3326.1	2631.9	2322.7	2329.2	2427.9	2477.3	2483.9	2533.2	2556.2
45°	4842.7	4290.0	3250.4	2552.9	2224.0	2200.9	2260.1	2325.9	2411.5	2506.9	2533.2
47.5°	5013.8	4365.7	3171.4	2457.5	2128.5	2052.9	2075.9	2191.1	2279.9	2368.7	2385.2
50°	5188.1	4441.3	3099.1	2342.4	2033.1	1895.0	1904.8	2010.1	2082.5	2151.6	2161.4
52.5°	5359.2	4507.1	3036.6	2233.8	1924.6	1707.4	1746.9	1855.5	1904.8	1937.7	1947.6
55°	5530.3	4563.1	2980.6	2141.7	1799.6	1559.4	1595.6	1697.6	1746.9	1763.4	1770.0
57.5°	5707.9	4628.9	2937.9	2062.8	1658.1	1427.8	1450.8	1523.2	1569.3	1589.0	1582.4
60°	5856.0	4684.8	2914.8	1980.5	1516.6	1306.1	1299.5	1365.3	1431.1	1450.8	1444.3
62.5°	5971.1	4721.0	2878.6	1875.2	1391.6	1184.4	1151.5	1237.0	1306.1	1319.2	1329.1
65°	6033.6	4724.3	2789.8	1740.3	1263.3	1052.8	1029.7	1115.3	1158.0	1171.2	1171.2
67.5°	6023.8	4671.6	2615.5	1559.4	1144.9	934.3	914.6	967.2	1029.7	1039.6	1029.7
70°	5819.8	4454.5	2335.8	1368.6	1003.4	829.0	792.9	845.5	904.7	868.5	852.1
72.5°	5240.8	3891.9	1924.6	1158.0	845.5	697.5	681.0	733.6	736.9	743.5	727.1
75°	4135.4	2898.4	1441.0	901.4	684.3	585.6	582.3	572.4	585.6	611.9	592.2
77.5°	2171.3	1447.5	779.7	552.7	496.8	470.5	447.4	444.1	483.6	500.1	480.3
80°	1177.8	812.6	447.4	332.3	302.7	306.0	335.6	329.0	371.8	381.6	365.2
82.5°	513.2	384.9	220.4	200.7	200.7	197.4	207.3	230.3	276.3	276.3	220.4
85°	111.9	95.4	85.5	98.7	111.9	111.9	111.9	111.9	79.0	42.8	29.6
87.5°	36.2	36.2	36.2	39.5	42.8	42.8	36.2	26.3	16.4	3.3	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)