

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: P841512

Luminaire Tested: **ARCH4-190-722-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841512
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: ARCH4-190-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25469 lumens
Efficiency: N/A
Efficacy: 134.0 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

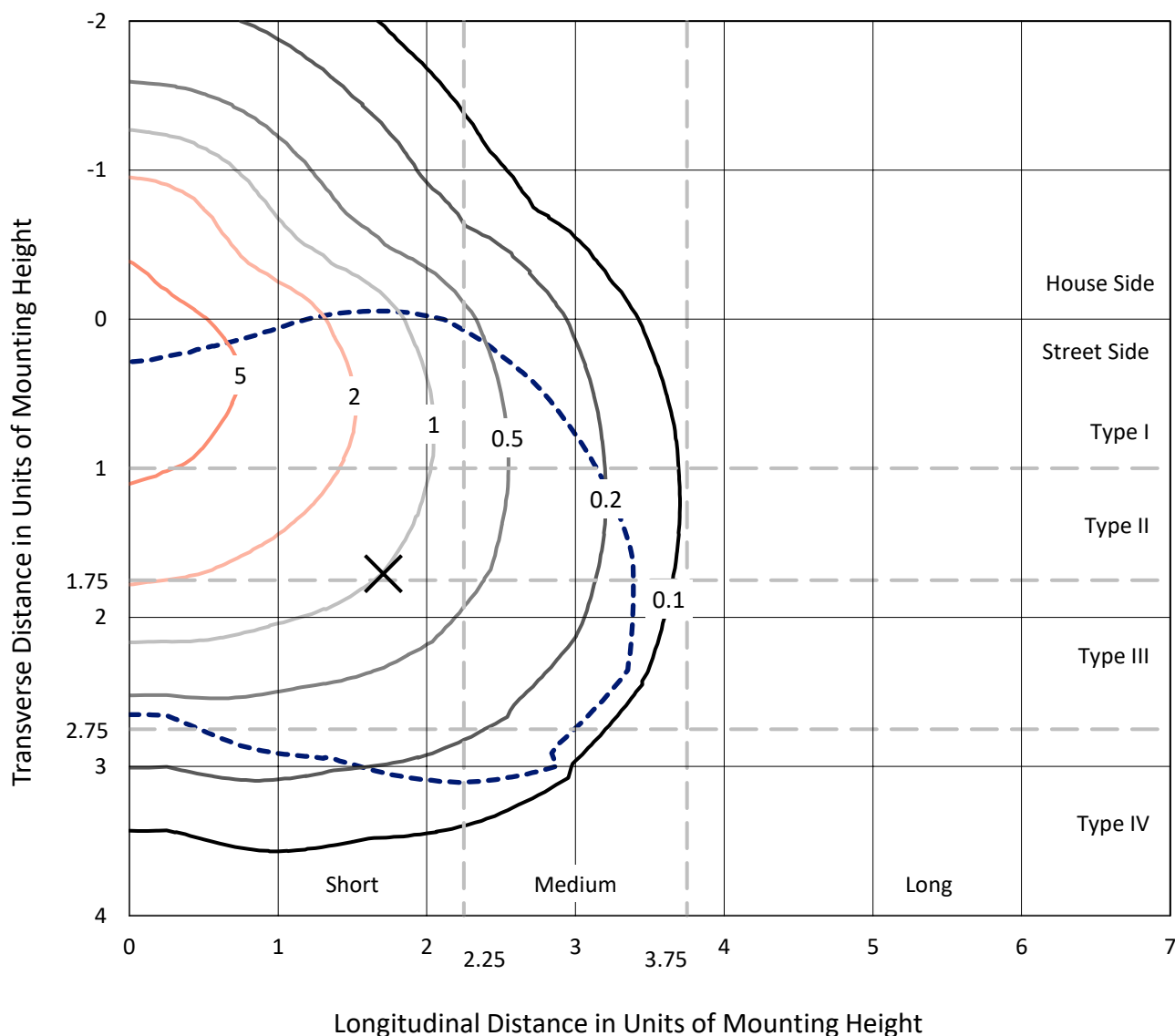
Input Watts (W): 190
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

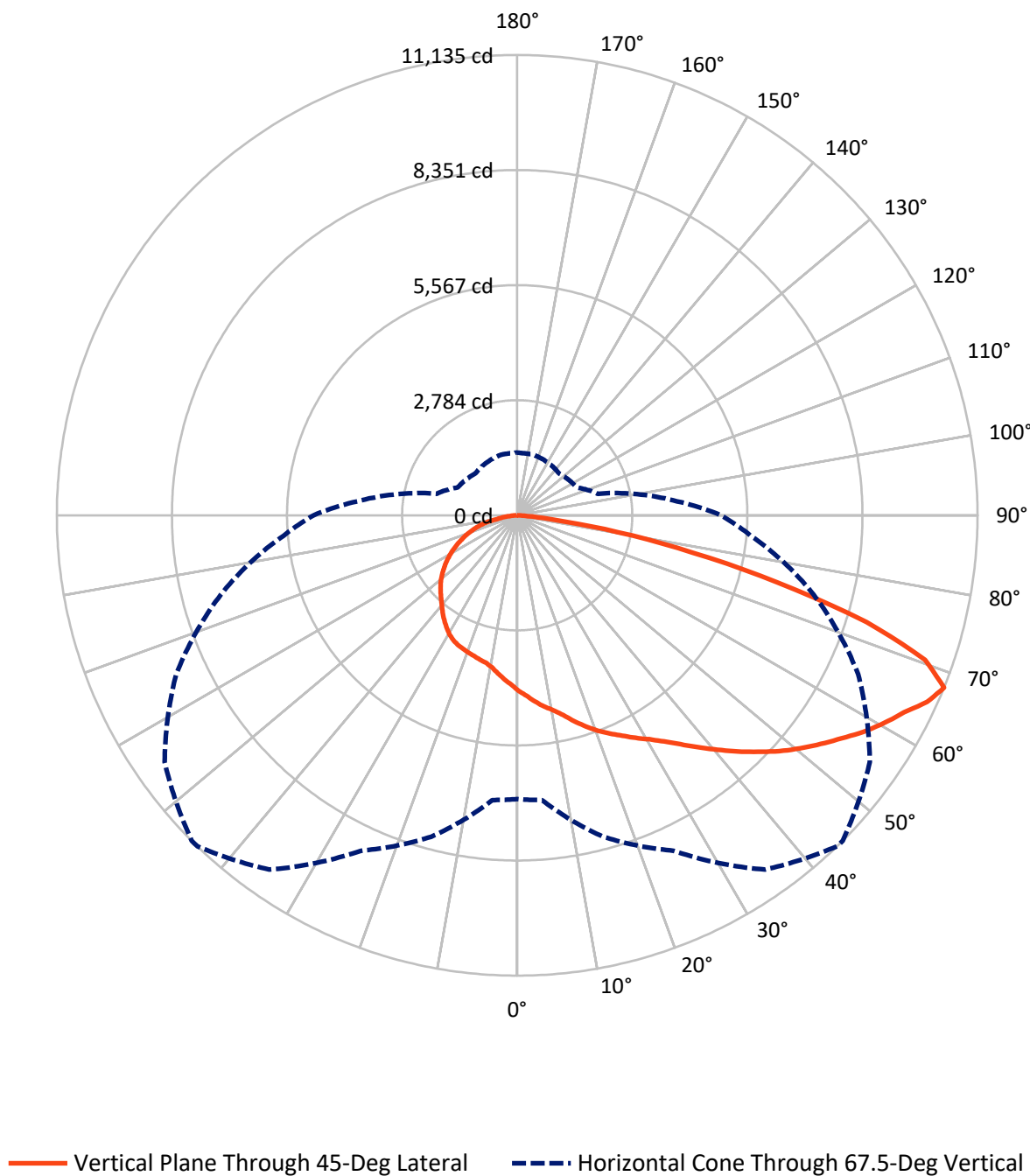
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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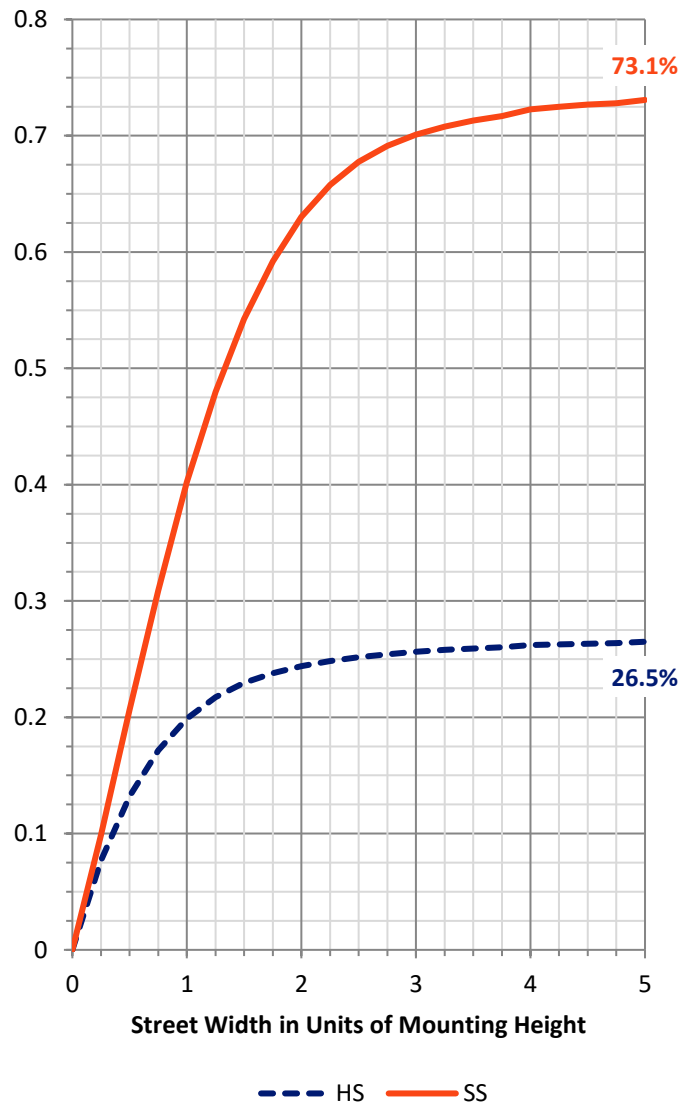
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6804.1	0.0	6804.1
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	18664.9	0.0	18664.9
	% Fixture	73.3	0.0	73.3
Total	Lumens	25469.0	0.0	25469.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.7	1.6
10°-20°	1256.3	4.9
20°-30°	2168.6	8.5
30°-40°	3197.9	12.6
40°-50°	4332.6	17.0
50°-60°	5295.4	20.8
60°-70°	5461.5	21.4
70°-80°	2991.4	11.7
80°-90°	358.5	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°	25469.0	100.0
0°-180°	25469.0	100.0

Coefficient of Utilization



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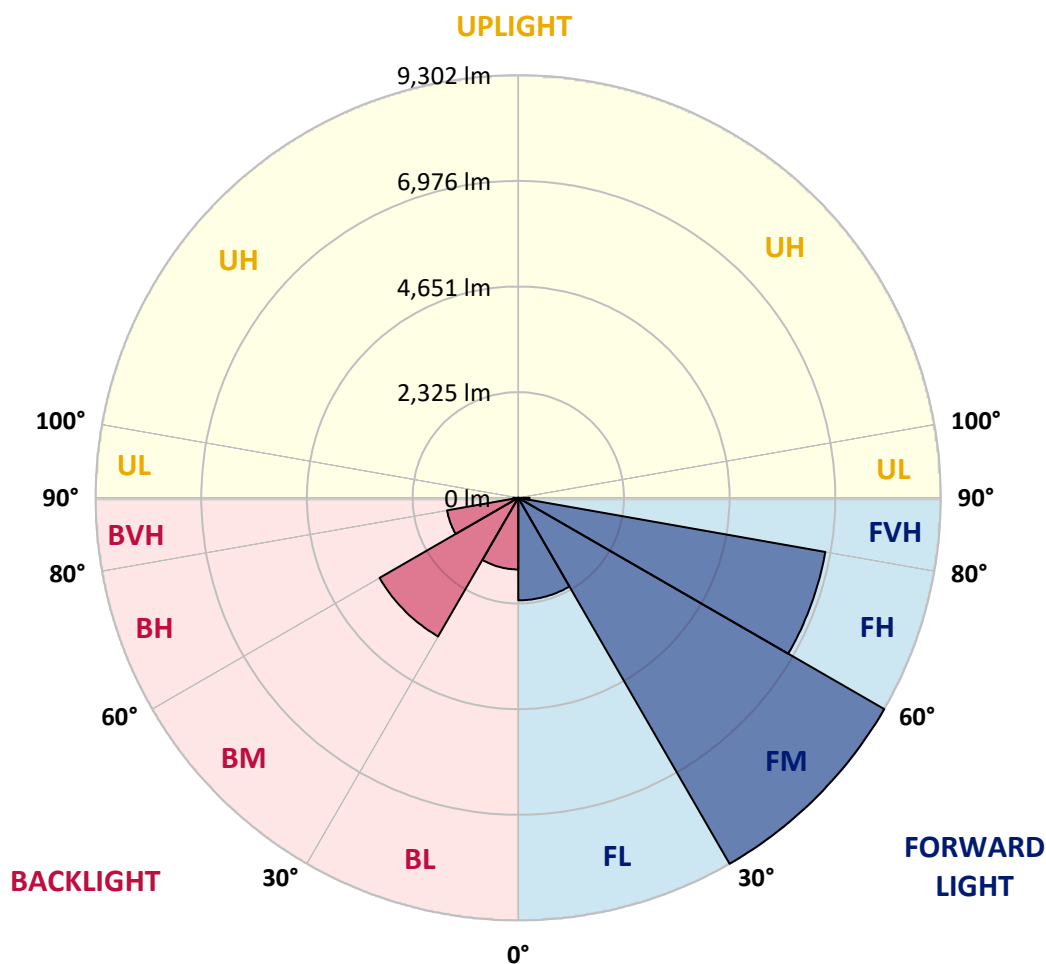
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2254.7	8.9			
FM	(30°-60°)	9301.5	36.5			
FH	(60°-80°)	6861.7	26.9			G3/7500
FVH	(80°-90°)	247.0	1.0			G3/500
BL	(0°-30°)	1577.0	6.2	B3/2500		
BM	(30°-60°)	3524.4	13.8	B3/5000		
BH	(60°-80°)	1591.2	6.2	B3/2500		G3/2500
BVH	(80°-90°)	111.5	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°	4247.7	4247.7	4247.7	4247.7	4247.7	4247.7	4247.7	4247.7	4247.7	4247.7	4247.7
2.5°	4433.8	4429.9	4437.7	4410.5	4375.6	4371.8	4371.8	4348.5	4321.4	4267.1	4224.5
5°	4643.1	4635.3	4639.2	4600.4	4553.9	4530.7	4526.8	4476.4	4414.4	4329.1	4251.6
7.5°	4836.8	4829.1	4825.2	4782.6	4712.8	4674.1	4670.2	4596.6	4522.9	4391.1	4278.8
10°	5019.0	5011.3	5003.5	4945.4	4860.1	4802.0	4794.2	4701.2	4608.2	4445.4	4302.0
12.5°	5251.5	5236.0	5228.3	5158.5	5034.5	4972.5	4960.9	4836.8	4720.6	4522.9	4348.5
15°	5495.7	5484.1	5472.5	5406.6	5267.1	5185.7	5166.3	5011.3	4852.4	4623.7	4418.3
17.5°	5677.9	5666.2	5666.2	5608.1	5480.2	5387.2	5371.7	5185.7	4988.0	4716.7	4472.5
20°	5790.3	5778.6	5790.3	5755.4	5658.5	5581.0	5565.5	5360.1	5123.6	4802.0	4519.0
22.5°	5871.7	5860.0	5879.4	5863.9	5794.1	5747.6	5736.0	5534.5	5263.2	4891.1	4565.6
25°	6015.1	6015.1	6015.1	5987.9	5922.0	5906.5	5906.5	5732.1	5441.5	5007.4	4635.3
27.5°	6301.9	6286.4	6267.0	6189.5	6077.1	6073.2	6096.4	5933.7	5646.9	5158.5	4720.6
30°	6724.3	6716.6	6642.9	6480.1	6290.2	6270.9	6286.4	6150.7	5867.8	5317.4	4817.5
32.5°	7270.8	7243.6	7092.5	6848.3	6577.0	6487.9	6518.9	6375.5	6100.3	5480.2	4910.5
35°	7658.3	7666.1	7557.6	7336.7	7015.0	6778.6	6801.8	6627.4	6352.2	5662.4	5026.8
37.5°	8104.0	8131.2	7968.4	7801.7	7503.3	7100.2	7123.5	6887.1	6604.2	5891.0	5150.8
40°	8720.3	8666.0	8390.8	8193.2	7863.8	7437.4	7456.8	7177.8	6894.8	6108.1	5294.2
42.5°	9235.7	9138.9	8805.5	8553.6	8158.3	7794.0	7813.4	7491.7	7189.4	6348.4	5453.1
45°	9976.0	9708.6	9228.0	9104.0	8460.6	8142.8	8162.2	7825.0	7499.4	6604.2	5623.6
47.5°	10406.2	9979.9	9673.7	9607.8	8793.9	8503.2	8526.5	8177.7	7832.8	6894.8	5801.9
50°	10379.1	10103.9	10014.8	9852.0	9088.5	8840.4	8863.7	8542.0	8169.9	7181.6	5972.4
52.5°	10200.8	10251.2	10204.7	9933.4	9383.0	9166.0	9193.1	8902.4	8514.9	7449.1	6131.3
55°	10476.0	10510.8	10421.7	10065.1	9708.6	9491.5	9522.5	9282.3	8855.9	7685.5	6267.0
57.5°	10805.4	10681.4	10592.2	10297.7	10045.8	9844.2	9879.1	9669.8	9150.5	7875.4	6371.6
60°	10789.9	10530.2	10619.4	10313.2	10274.4	10169.8	10200.8	9987.6	9375.3	8014.9	6414.3
62.5°	9995.4	9855.9	10305.4	10200.8	10460.5	10460.5	10499.2	10181.4	9510.9	8073.0	6391.0
65°	8615.6	8623.4	9414.0	9848.1	10681.4	10859.7	10890.7	10301.6	9433.4	7902.5	6174.0
67.5°	6863.8	6914.2	8049.8	8952.8	10460.5	11131.0	11134.8	10410.1	9100.1	7421.9	5670.1
70°	5022.9	5061.6	6402.6	7499.4	9417.9	10530.2	10468.2	10103.9	8375.3	6584.8	4883.4
72.5°	3395.1	3430.0	4809.7	5759.3	7728.1	8968.3	8832.7	8929.6	7139.0	5410.5	3926.1
75°	2282.8	2325.4	3422.2	4119.8	5685.6	6809.6	6507.3	6763.1	5522.8	4096.6	2864.1
77.5°	1437.9	1465.0	2174.3	2701.3	3883.4	4635.3	4333.0	4336.9	3181.9	2205.3	1538.6
80°	914.7	922.4	1317.7	1558.0	2247.9	2786.6	2464.9	2003.7	1434.0	1170.5	918.5
82.5°	531.0	519.3	786.8	879.8	1069.7	1058.1	875.9	829.4	627.9	585.2	469.0
85°	213.2	197.7	344.9	321.7	325.6	344.9	255.8	255.8	205.4	158.9	116.3
87.5°	42.6	42.6	46.5	42.6	42.6	46.5	34.9	34.9	31.0	31.0	31.0
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°	4247.7	4247.7	4247.7	4247.7	4247.7	4247.7	4247.7	4247.7	4247.7	4247.7	4247.7
2.5°	4216.7	4209.0	4189.6	4139.2	4112.1	4096.6	4073.3	4065.6	4061.7	4065.6	4077.2
5°	4228.4	4201.2	4147.0	4065.6	4011.3	3976.4	3937.7	3922.2	3910.6	3910.6	3922.2
7.5°	4236.1	4193.5	4100.5	3980.3	3902.8	3848.6	3802.0	3782.7	3778.8	3790.4	3794.3
10°	4240.0	4178.0	4046.2	3895.1	3794.3	3724.5	3678.0	3666.4	3678.0	3701.3	3705.2
12.5°	4267.1	4181.9	4015.2	3836.9	3716.8	3647.0	3612.1	3612.1	3643.1	3685.8	3689.6
15°	4313.6	4209.0	3999.7	3790.4	3666.4	3604.4	3592.8	3612.1	3658.6	3724.5	3732.3
17.5°	4348.5	4224.5	3964.8	3728.4	3600.5	3561.8	3581.1	3627.6	3693.5	3782.7	3790.4
20°	4371.8	4224.5	3914.4	3654.8	3534.6	3526.9	3581.1	3654.8	3724.5	3829.2	3840.8
22.5°	4395.0	4216.7	3856.3	3565.6	3461.0	3484.2	3585.0	3678.0	3747.8	3860.2	3879.6
25°	4437.7	4228.4	3798.2	3476.5	3383.5	3449.4	3581.1	3693.5	3767.2	3883.4	3914.4
27.5°	4495.8	4255.5	3755.5	3395.1	3306.0	3395.1	3554.0	3689.6	3767.2	3879.6	3914.4
30°	4557.8	4286.5	3705.2	3306.0	3216.8	3317.6	3495.9	3647.0	3736.2	3840.8	3883.4
32.5°	4623.7	4321.4	3662.5	3209.1	3108.3	3212.9	3410.6	3581.1	3678.0	3774.9	3821.4
35°	4712.8	4383.4	3639.3	3131.6	3011.4	3104.4	3302.1	3495.9	3600.5	3689.6	3743.9
37.5°	4821.3	4460.9	3627.6	3054.0	2906.8	2984.3	3185.8	3391.2	3503.6	3577.3	3627.6
40°	4945.4	4557.8	3623.8	2980.4	2802.1	2860.3	3065.7	3271.1	3379.6	3437.7	3480.4
42.5°	5084.9	4666.3	3616.0	2906.8	2697.5	2744.0	2949.4	3150.9	3243.9	3294.3	3333.1
45°	5232.2	4774.8	3600.5	2817.6	2585.1	2639.3	2829.2	3007.5	3104.4	3147.1	3189.7
47.5°	5379.4	4883.4	3569.5	2716.9	2484.3	2534.7	2701.3	2856.4	2933.9	2972.6	3015.3
50°	5522.8	4980.2	3495.9	2600.6	2379.7	2426.2	2554.1	2658.7	2716.9	2747.9	2790.5
52.5°	5650.7	5046.1	3391.2	2464.9	2275.0	2298.3	2383.5	2472.7	2519.2	2523.1	2561.8
55°	5759.3	5081.0	3240.1	2325.4	2162.6	2166.5	2213.0	2282.8	2302.2	2286.7	2313.8
57.5°	5821.3	5061.6	3073.4	2182.0	2046.4	2030.9	2065.7	2100.6	2104.5	2065.7	2092.9
60°	5836.8	4972.5	2856.4	2038.6	1930.1	1887.5	1899.1	1891.3	1883.6	1868.1	1891.3
62.5°	5759.3	4782.6	2616.1	1899.1	1806.1	1740.2	1736.3	1732.4	1744.1	1747.9	1751.8
65°	5476.3	4426.0	2329.3	1755.7	1674.3	1585.2	1581.3	1627.8	1643.3	1620.0	1627.8
67.5°	4929.9	3879.6	2015.4	1589.0	1507.6	1430.1	1461.1	1488.3	1515.4	1507.6	1515.4
70°	4154.7	3185.8	1728.6	1403.0	1325.5	1282.9	1317.7	1341.0	1344.9	1337.1	1344.9
72.5°	3267.2	2488.2	1461.1	1213.1	1143.3	1123.9	1166.6	1186.0	1220.8	1236.3	1240.2
75°	2360.3	1837.1	1197.6	1007.7	949.5	949.5	988.3	1023.2	1054.2	1034.8	1023.2
77.5°	1317.7	1096.8	860.4	693.7	705.4	759.6	775.1	813.9	844.9	841.0	833.3
80°	798.4	686.0	581.4	449.6	445.7	488.3	589.1	655.0	670.5	635.6	631.7
82.5°	414.7	360.4	310.1	251.9	279.0	325.6	341.1	410.8	453.5	438.0	457.3
85°	104.6	100.8	112.4	116.3	143.4	158.9	174.4	205.4	135.6	65.9	65.9
87.5°	31.0	31.0	38.8	38.8	50.4	62.0	58.1	58.1	31.0	3.9	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)