

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: P840970

Luminaire Tested: **ARCH4-110-740-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840970
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: ARCH4-110-740-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 920mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20080 lumens
Efficiency: N/A
Efficacy: 178.3 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): 112.6
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

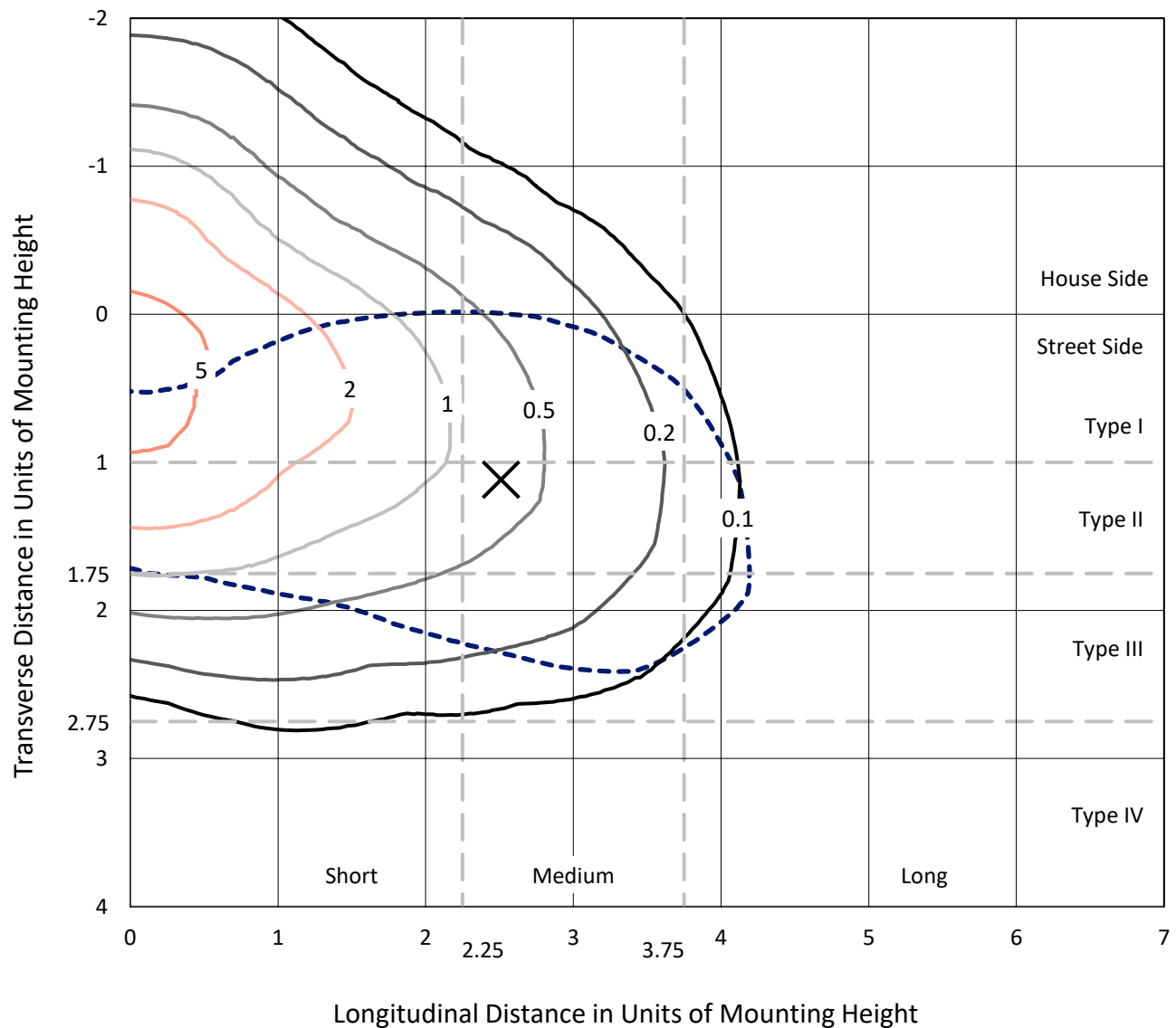


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Iso-Footcandle Lines of Horizontal Illumination

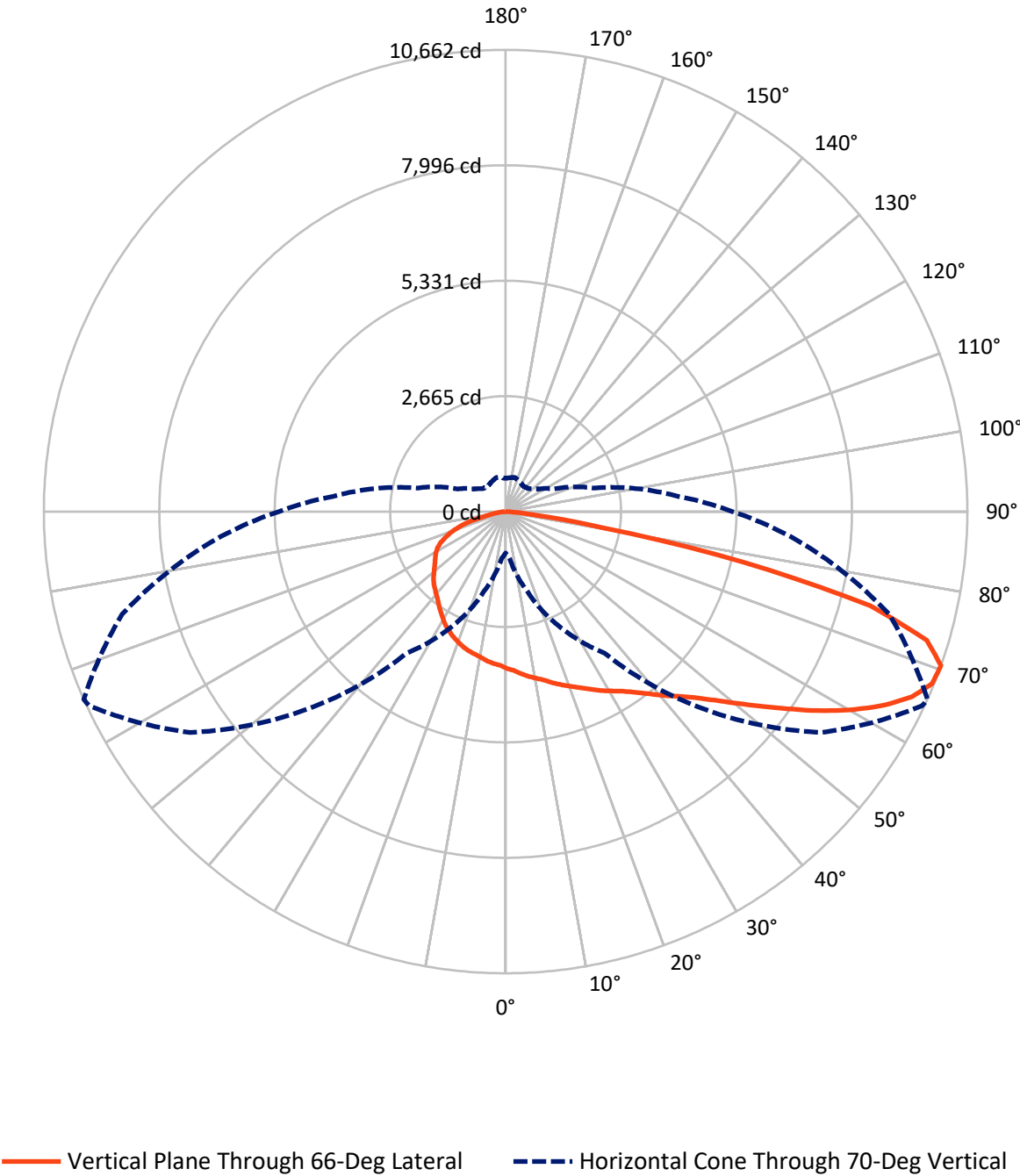
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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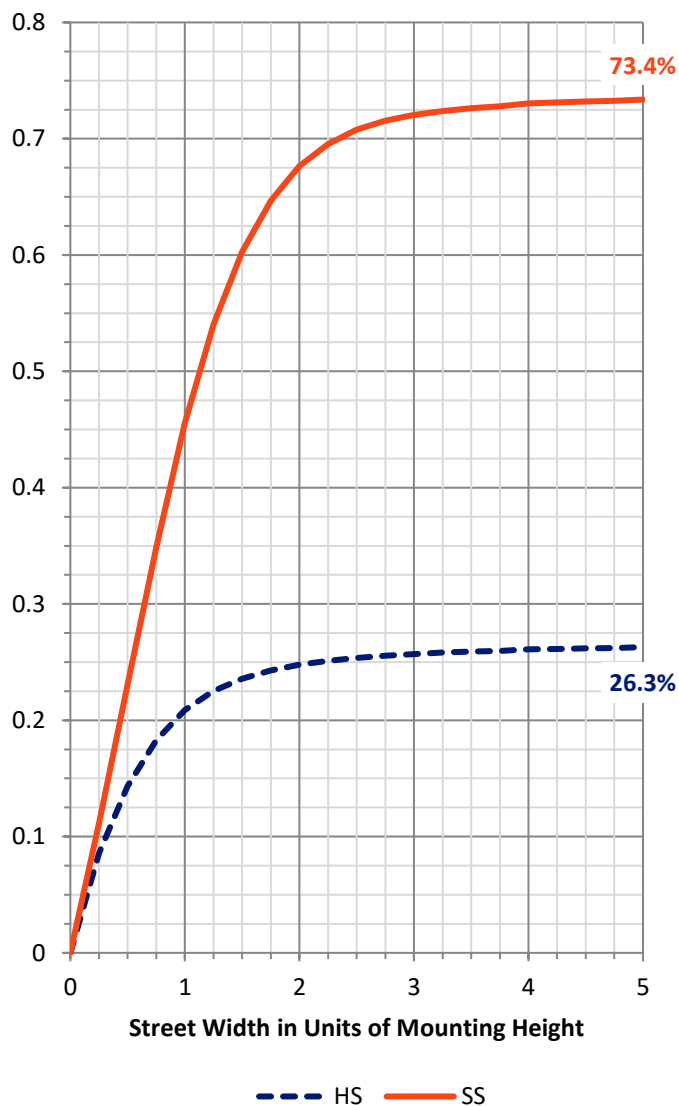
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5320.7	0.0	5320.7
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	14759.3	0.0	14759.3
	% Fixture	73.5	0.0	73.5
Total	Lumens	20080.0	0.0	20080.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.2	1.7
10°-20°	1044.6	5.2
20°-30°	1751.0	8.7
30°-40°	2621.9	13.1
40°-50°	3505.4	17.5
50°-60°	4092.7	20.4
60°-70°	4069.5	20.3
70°-80°	2409.2	12.0
80°-90°	237.5	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°	20080.0	100.0
0°-180°	20080.0	100.0

Coefficient of Utilization



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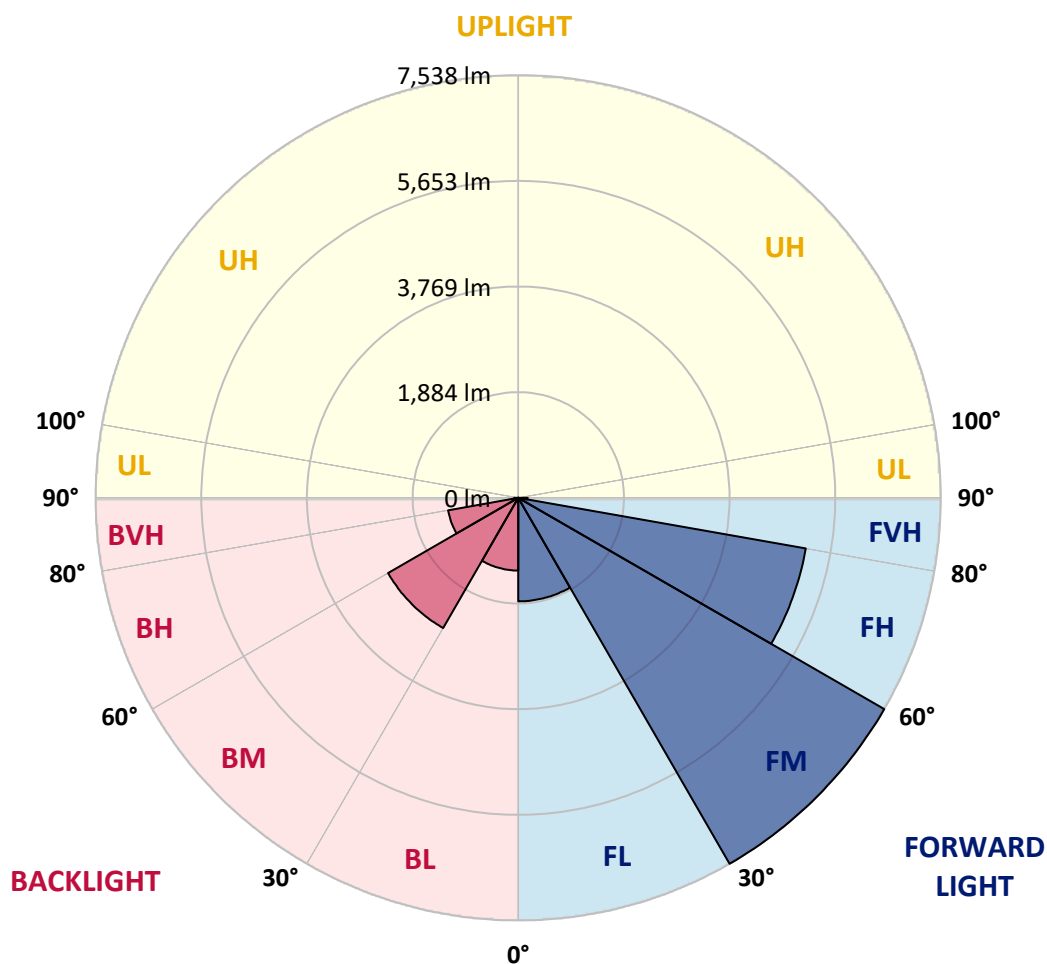
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1846.8	9.2			
FM	(30°-60°)	7537.8	37.5			
FH	(60°-80°)	5207.8	25.9			G3/7500
FVH	(80°-90°)	166.9	0.8			G2/225
BL	(0°-30°)	1297.0	6.5	B3/2500		
BM	(30°-60°)	2682.2	13.4	B3/5000		
BH	(60°-80°)	1271.0	6.3	B3/2500		G3/2500
BVH	(80°-90°)	70.6	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°	3624.0	3624.0	3624.0	3624.0	3624.0	3624.0	3624.0	3624.0	3624.0	3624.0	3624.0
2.5°	3757.2	3751.3	3748.3	3736.5	3709.8	3721.7	3695.0	3677.3	3674.3	3632.9	3609.2
5°	3911.2	3908.2	3902.3	3884.5	3843.1	3849.0	3804.6	3772.0	3763.1	3698.0	3647.7
7.5°	4041.5	4035.5	4032.6	4008.9	3964.5	3961.5	3908.2	3860.8	3846.0	3757.2	3680.2
10°	4142.1	4133.2	4139.2	4115.5	4068.1	4059.2	3991.1	3928.9	3914.1	3801.6	3695.0
12.5°	4228.0	4222.1	4230.9	4210.2	4171.7	4162.8	4094.7	4014.8	3997.0	3866.8	3727.6
15°	4322.7	4302.0	4319.8	4310.9	4284.2	4281.3	4219.1	4130.3	4106.6	3949.7	3777.9
17.5°	4373.1	4361.2	4381.9	4384.9	4373.1	4393.8	4334.6	4228.0	4207.3	4026.6	3822.4
20°	4408.6	4390.8	4414.5	4432.3	4441.2	4482.6	4435.2	4331.6	4307.9	4100.7	3863.8
22.5°	4530.0	4491.5	4494.4	4506.3	4512.2	4571.4	4541.8	4441.2	4417.5	4192.5	3914.1
25°	4834.9	4758.0	4707.6	4672.1	4630.6	4681.0	4663.2	4565.5	4544.8	4302.0	3976.3
27.5°	5308.7	5211.0	5110.3	5006.7	4843.8	4823.1	4793.5	4704.7	4681.0	4411.5	4038.5
30°	5847.5	5749.8	5631.4	5465.6	5160.6	5000.7	4932.6	4834.9	4808.3	4509.3	4097.7
32.5°	6383.4	6297.6	6179.1	5977.8	5542.6	5216.9	5071.8	4971.1	4944.5	4615.8	4168.8
35°	6800.9	6747.6	6670.6	6418.9	5921.5	5471.5	5273.1	5151.7	5122.1	4784.6	4299.0
37.5°	7138.4	7099.9	7034.8	6771.3	6196.9	5726.1	5504.1	5364.9	5332.3	4968.2	4438.2
40°	7635.8	7535.2	7481.9	7099.9	6436.7	5957.1	5764.6	5619.5	5584.0	5163.6	4550.7
42.5°	8059.2	7985.2	7920.1	7393.0	6664.7	6155.4	6010.4	5877.1	5829.8	5356.0	4672.1
45°	8130.3	8159.9	8127.3	7538.1	7025.9	6350.9	6259.1	6173.2	6128.8	5616.6	4855.7
47.5°	8133.2	8133.2	7940.8	7621.0	7473.0	6569.9	6525.5	6555.1	6507.8	5948.2	5074.8
50°	7920.1	7958.6	7857.9	7641.7	7591.4	6789.0	6851.2	7011.1	6963.7	6300.5	5311.6
52.5°	7478.9	7606.2	7603.3	7609.2	7419.7	6975.6	7194.7	7558.8	7478.9	6697.3	5563.3
55°	6700.2	6954.8	7182.8	7378.2	7271.7	7088.1	7615.1	8142.1	8059.2	7141.4	5817.9
57.5°	6034.0	6196.9	6481.1	7034.8	7097.0	7185.8	8008.9	8752.0	8678.0	7632.9	6084.4
60°	5273.1	5498.2	5782.4	6569.9	6883.8	7313.1	8441.2	9347.2	9276.1	8130.3	6342.0
62.5°	4103.6	4393.8	4962.3	5856.4	6572.9	7393.0	8781.6	9871.2	9838.6	8601.0	6572.9
65°	2860.1	3117.7	3914.1	4980.0	6078.5	7357.5	9054.0	10339.0	10309.4	8985.9	6735.8
67.5°	1669.9	1968.9	2869.0	4008.9	5205.0	7111.8	9142.9	10614.4	10614.4	9219.8	6780.2
70°	953.4	1092.5	1891.9	2922.3	3991.1	6433.8	8894.2	10611.4	10661.7	9166.5	6596.6
72.5°	666.2	728.3	1273.1	1966.0	2706.1	5205.0	8242.8	10099.2	10167.3	8663.2	5968.9
75°	518.1	562.5	897.1	1341.2	1705.4	3535.2	6818.7	8515.2	8695.8	7384.2	4826.1
77.5°	393.8	426.4	524.1	837.9	1092.5	2031.1	4500.4	5584.0	5595.9	4521.1	2587.7
80°	287.2	319.8	349.4	512.2	580.3	950.4	1699.5	2333.1	2267.9	2188.0	1400.4
82.5°	171.7	204.3	213.2	278.3	284.2	405.6	595.1	752.0	722.4	962.3	657.3
85°	74.0	103.6	109.5	127.3	121.4	165.8	236.9	198.4	177.6	204.3	142.1
87.5°	17.8	29.6	29.6	32.6	26.6	41.5	44.4	32.6	29.6	35.5	35.5
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°	3624.0	3624.0	3624.0	3624.0	3624.0	3624.0	3624.0	3624.0	3624.0	3624.0	3624.0
2.5°	3603.3	3594.4	3597.3	3547.0	3532.2	3517.4	3508.5	3502.6	3496.7	3505.6	3514.4
5°	3629.9	3609.2	3585.5	3511.5	3481.9	3449.3	3425.6	3404.9	3396.0	3396.0	3404.9
7.5°	3650.6	3615.1	3564.8	3467.1	3413.8	3369.4	3330.9	3304.2	3289.4	3289.4	3298.3
10°	3653.6	3603.3	3523.3	3404.9	3333.8	3268.7	3224.3	3194.7	3173.9	3173.9	3179.9
12.5°	3671.4	3603.3	3499.6	3357.5	3268.7	3188.7	3135.5	3091.0	3082.2	3082.2	3088.1
15°	3701.0	3618.1	3484.8	3316.1	3209.5	3117.7	3058.5	3011.1	2993.3	3005.2	3008.1
17.5°	3727.6	3626.9	3458.2	3262.8	3135.5	3034.8	2969.7	2928.2	2904.5	2931.2	2931.2
20°	3745.4	3626.9	3419.7	3194.7	3055.5	2943.0	2880.8	2830.5	2812.7	2845.3	2848.3
22.5°	3772.0	3624.0	3378.2	3126.6	2969.7	2851.2	2789.0	2750.6	2741.7	2777.2	2789.0
25°	3801.6	3629.9	3333.8	3049.6	2874.9	2759.4	2712.1	2694.3	2700.2	2744.6	2759.4
27.5°	3834.2	3641.7	3289.4	2963.7	2771.3	2667.7	2641.0	2649.9	2673.6	2729.8	2747.6
30°	3863.8	3644.7	3227.2	2863.1	2652.9	2555.1	2567.0	2605.5	2641.0	2697.3	2718.0
32.5°	3902.3	3647.7	3162.1	2753.5	2525.5	2454.5	2507.8	2569.9	2605.5	2658.8	2682.5
35°	3997.0	3698.0	3111.8	2646.9	2407.1	2368.6	2457.4	2537.4	2558.1	2605.5	2626.2
37.5°	4106.6	3780.9	3085.1	2537.4	2291.6	2282.8	2395.3	2475.2	2481.1	2510.7	2531.5
40°	4174.7	3816.4	3055.5	2445.6	2188.0	2193.9	2309.4	2371.6	2359.7	2380.5	2395.3
42.5°	4242.8	3828.3	2993.3	2368.6	2090.3	2096.2	2185.0	2229.5	2235.4	2279.8	2300.5
45°	4358.3	3860.8	2925.2	2297.6	2001.5	1980.8	2034.0	2093.3	2170.2	2256.1	2279.8
47.5°	4512.2	3928.9	2854.2	2211.7	1915.6	1847.5	1868.2	1971.9	2051.8	2131.8	2146.6
50°	4669.1	3997.0	2789.0	2108.1	1829.8	1705.4	1714.3	1809.0	1874.2	1936.3	1945.2
52.5°	4823.1	4056.3	2732.8	2010.4	1732.1	1536.6	1572.2	1669.9	1714.3	1743.9	1752.8
55°	4977.1	4106.6	2682.5	1927.5	1619.5	1403.4	1436.0	1527.8	1572.2	1587.0	1592.9
57.5°	5136.9	4165.8	2644.0	1856.4	1492.2	1285.0	1305.7	1370.8	1412.3	1430.1	1424.1
60°	5270.2	4216.1	2623.2	1782.4	1364.9	1175.4	1169.5	1228.7	1287.9	1305.7	1299.8
62.5°	5373.8	4248.7	2590.7	1687.6	1252.4	1065.9	1036.3	1113.2	1175.4	1187.3	1196.2
65°	5430.1	4251.7	2510.7	1566.2	1136.9	947.4	926.7	1003.7	1042.2	1054.0	1054.0
67.5°	5421.2	4204.3	2353.8	1403.4	1030.3	840.9	823.1	870.5	926.7	935.6	926.7
70°	5237.6	4008.9	2102.1	1231.7	903.0	746.1	713.5	760.9	814.2	781.6	766.8
72.5°	4716.5	3502.6	1732.1	1042.2	760.9	627.7	612.9	660.3	663.2	669.1	654.3
75°	3721.7	2608.4	1296.8	811.3	615.8	527.0	524.1	515.2	527.0	550.7	532.9
77.5°	1954.1	1302.7	701.7	497.4	447.1	423.4	402.7	399.7	435.2	450.0	432.3
80°	1060.0	731.3	402.7	299.0	272.4	275.4	302.0	296.1	334.6	343.4	328.6
82.5°	461.9	346.4	198.4	180.6	180.6	177.6	186.5	207.3	248.7	248.7	198.4
85°	100.7	85.9	77.0	88.8	100.7	100.7	100.7	100.7	71.1	38.5	26.6
87.5°	32.6	32.6	32.6	35.5	38.5	38.5	32.6	23.7	14.8	3.0	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)