

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: P840878

Luminaire Tested: **ARCH4-100-730-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-100-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 845mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17629 lumens
Efficiency: N/A
Efficacy: 171.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

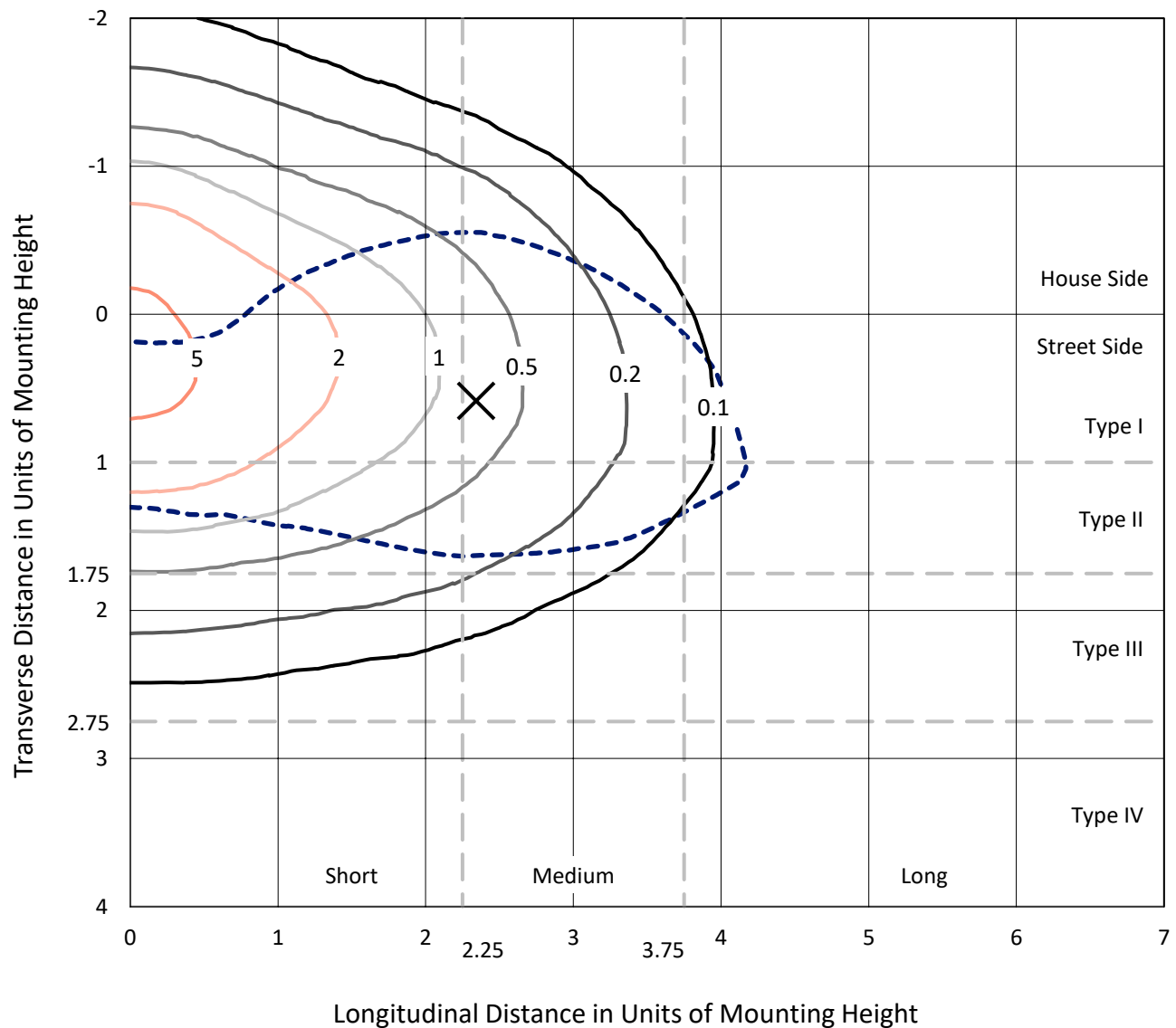
Input Watts (W): 103.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

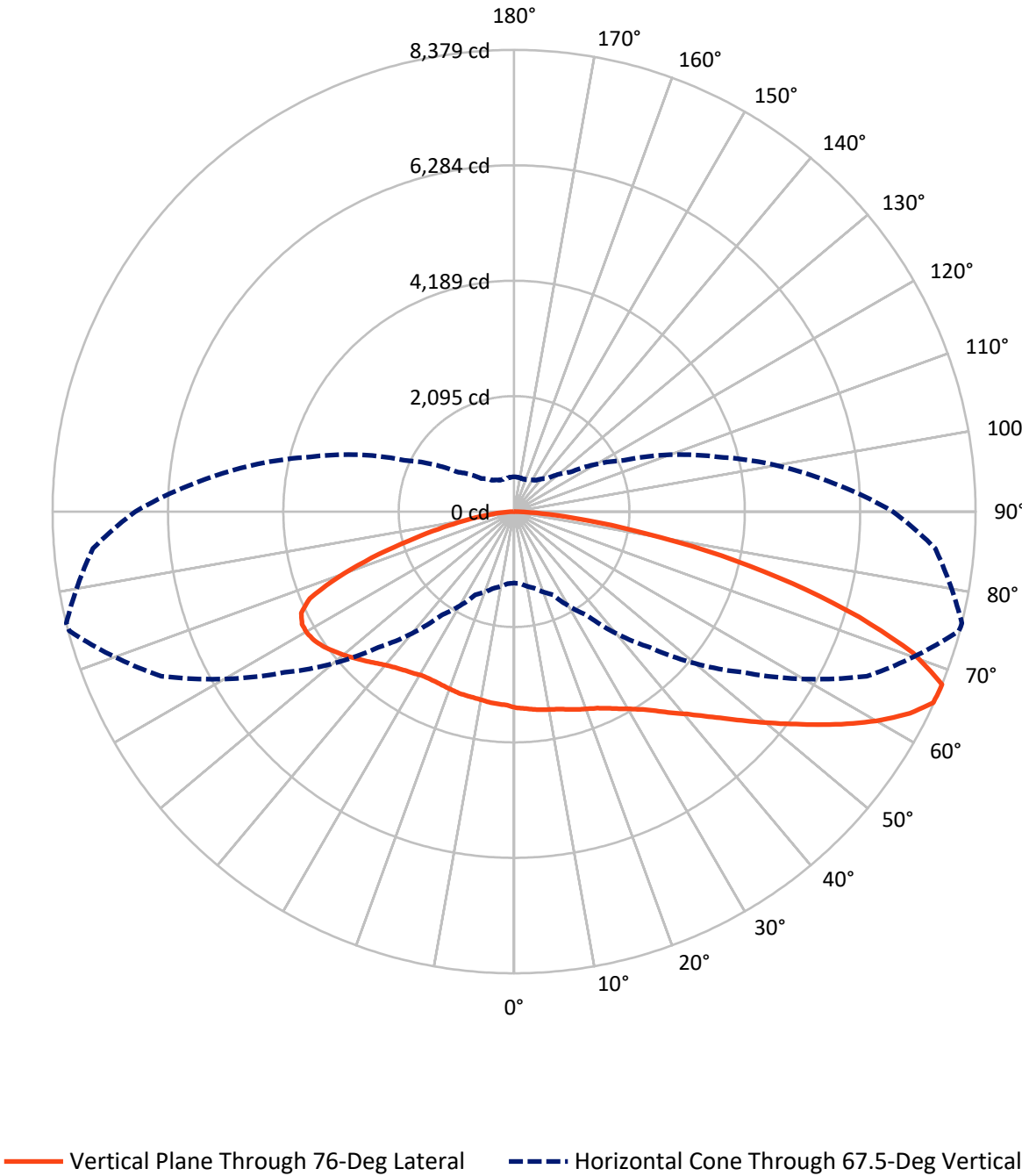
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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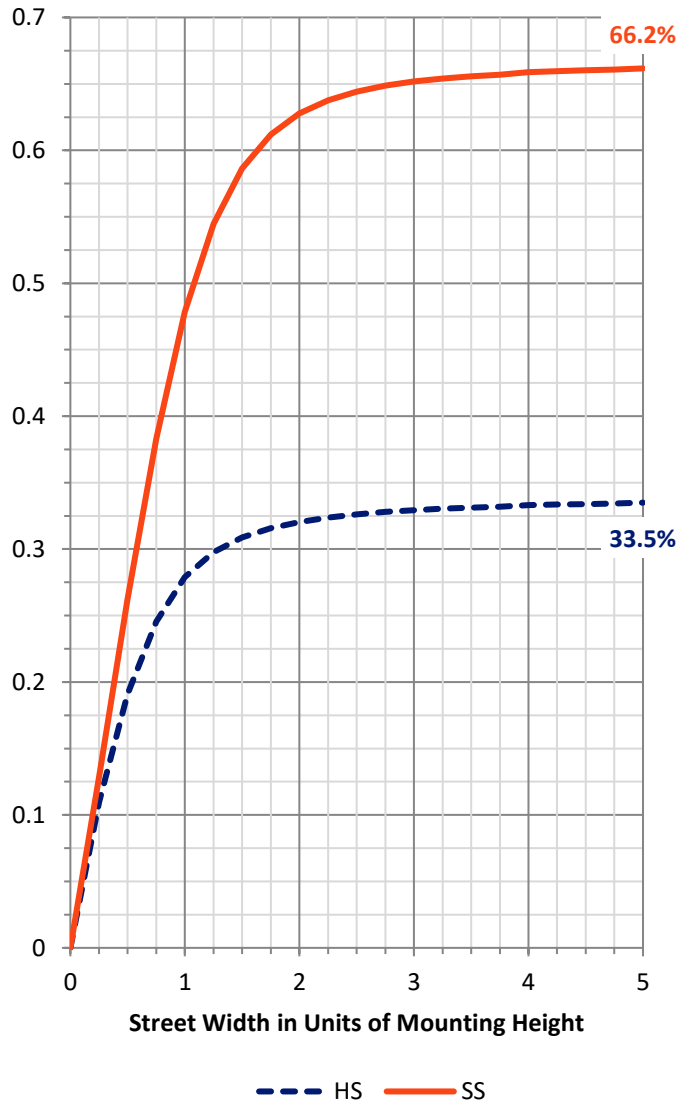
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5956.9	0.0	5956.9
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	11672.1	0.0	11672.1
	% Fixture	66.2	0.0	66.2
Total	Lumens	17629.0	0.0	17629.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.4	1.9
10°-20°	1049.8	6.0
20°-30°	1783.6	10.1
30°-40°	2537.8	14.4
40°-50°	3205.2	18.2
50°-60°	3470.2	19.7
60°-70°	3227.7	18.3
70°-80°	1733.6	9.8
80°-90°	277.8	1.6
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°	17629.0	100.0
0°-180°	17629.0	100.0

Coefficient of Utilization



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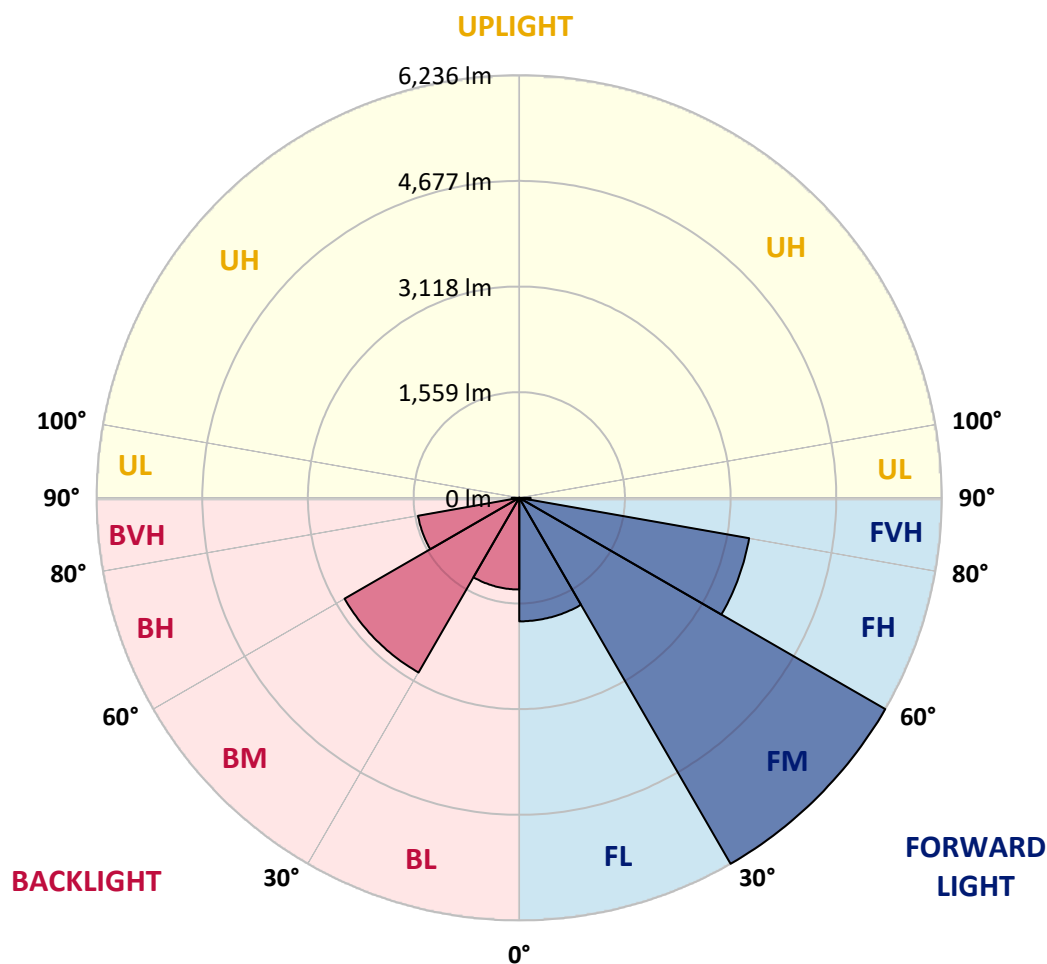
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1823.0	10.3			
FM	(30°-60°)	6236.5	35.4			
FH	(60°-80°)	3444.5	19.5			G2/5000
FVH	(80°-90°)	168.0	1.0			G2/225
BL	(0°-30°)	1353.7	7.7	B3/2500		
BM	(30°-60°)	2976.8	16.9	B3/5000		
BH	(60°-80°)	1516.7	8.6	B3/2500		G3/2500
BVH	(80°-90°)	109.7	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3561.0	3561.0	3561.0	3561.0	3561.0	3561.0	3561.0	3561.0	3561.0	3561.0	3561.0
2.5°	3669.0	3662.5	3636.3	3639.6	3639.6	3636.3	3597.0	3580.7	3580.7	3577.4	3541.4
5°	3799.9	3790.1	3760.7	3754.1	3741.0	3724.7	3662.5	3626.5	3610.1	3606.8	3557.7
7.5°	3953.8	3940.7	3904.7	3885.0	3852.3	3809.8	3731.2	3675.6	3636.3	3633.0	3564.3
10°	4107.6	4094.5	4052.0	4016.0	3970.1	3901.4	3799.9	3718.1	3655.9	3649.4	3567.6
12.5°	4290.9	4277.8	4225.4	4179.6	4110.9	4019.2	3885.0	3773.8	3688.7	3678.8	3577.4
15°	4484.0	4464.4	4412.0	4359.6	4274.5	4156.7	3996.3	3849.0	3741.0	3724.7	3606.8
17.5°	4644.4	4618.2	4575.6	4523.3	4428.4	4290.9	4107.6	3924.3	3790.1	3777.0	3636.3
20°	4781.8	4762.2	4716.4	4667.3	4565.8	4415.3	4212.3	3999.6	3836.0	3819.6	3659.2
22.5°	4912.8	4886.6	4860.4	4824.4	4713.1	4546.2	4333.4	4091.2	3894.9	3875.2	3688.7
25°	5063.3	5033.9	5024.0	5004.4	4873.5	4703.3	4480.7	4205.8	3976.7	3953.8	3741.0
27.5°	5249.9	5217.2	5197.5	5197.5	5040.4	4863.7	4637.8	4340.0	4071.6	4052.0	3806.5
30°	5446.3	5407.0	5377.5	5377.5	5200.8	5024.0	4791.7	4474.2	4179.6	4156.7	3891.6
32.5°	5619.7	5580.5	5547.7	5544.5	5361.2	5184.4	4952.0	4621.5	4310.5	4281.1	3996.3
35°	5753.9	5717.9	5688.5	5695.0	5521.5	5348.1	5132.1	4817.8	4474.2	4441.5	4133.8
37.5°	5835.8	5822.7	5806.3	5829.2	5668.8	5505.2	5318.6	5007.7	4660.7	4631.3	4304.0
40°	5878.3	5868.5	5933.9	5963.4	5793.2	5645.9	5505.2	5204.1	4863.7	4830.9	4500.4
42.5°	5940.5	6022.3	6048.5	6041.9	5884.8	5753.9	5675.4	5416.8	5102.6	5073.1	4736.0
45°	5717.9	5698.3	5842.3	5920.8	5891.4	5822.7	5835.8	5672.1	5380.8	5351.3	5007.7
47.5°	5420.1	5393.9	5475.7	5668.8	5783.4	5848.8	5979.8	5937.2	5701.6	5675.4	5325.2
50°	4791.7	4827.7	5132.1	5390.6	5616.5	5842.3	6100.9	6222.0	6055.0	6028.9	5665.6
52.5°	4094.5	4130.5	4448.0	5043.7	5413.5	5793.2	6189.2	6506.7	6438.0	6408.5	6028.9
55°	3587.2	3665.8	4025.8	4457.8	5125.5	5639.4	6241.6	6798.0	6850.4	6824.2	6424.9
57.5°	3083.2	3142.1	3413.7	3796.7	4732.8	5371.0	6238.3	7069.7	7282.4	7256.2	6827.5
60°	2490.7	2566.0	2782.0	3194.4	4209.1	5050.2	6146.7	7282.4	7698.1	7678.4	7217.0
62.5°	2084.9	2107.8	2261.6	2618.4	3534.8	4644.4	5940.5	7397.0	8074.5	8061.4	7567.2
65°	1679.0	1682.3	1823.1	2120.9	2883.5	4140.3	5590.3	7354.4	8359.2	8365.8	7819.2
67.5°	1296.1	1312.5	1440.1	1666.0	2291.1	3485.7	5089.5	7066.4	8362.5	8378.9	7675.2
70°	896.8	909.9	1103.0	1322.3	1770.7	2778.8	4412.0	6303.8	7675.2	7688.3	6879.8
72.5°	631.7	638.2	844.4	1057.2	1384.5	2094.7	3328.6	5213.9	6542.7	6552.5	5786.7
75°	471.3	477.9	595.7	801.9	1060.5	1449.9	2274.7	3993.1	5227.0	5227.0	4569.1
77.5°	333.8	337.1	386.2	553.1	707.0	978.6	1368.1	2615.1	3836.0	3842.5	3328.6
80°	225.8	229.1	252.0	373.1	441.9	530.2	743.0	1371.4	2418.7	2428.6	2114.4
82.5°	117.8	124.4	140.7	189.8	222.6	294.6	382.9	697.1	1338.7	1364.8	1269.9
85°	45.8	45.8	52.4	62.2	81.8	114.6	176.7	265.1	605.5	625.1	559.7
87.5°	16.4	16.4	19.6	19.6	22.9	26.2	29.5	39.3	68.7	68.7	65.5
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°	3561.0	3561.0	3561.0	3561.0	3561.0	3561.0	3561.0	3561.0	3561.0	3561.0	3561.0
2.5°	3528.3	3528.3	3511.9	3518.5	3515.2	3508.7	3502.1	3511.9	3502.1	3479.2	3475.9
5°	3534.8	3528.3	3502.1	3498.8	3489.0	3475.9	3459.6	3466.1	3449.7	3430.1	3426.8
7.5°	3538.1	3525.0	3489.0	3475.9	3456.3	3430.1	3403.9	3403.9	3381.0	3361.4	3358.1
10°	3531.6	3515.2	3466.1	3439.9	3403.9	3364.6	3328.6	3318.8	3292.6	3269.7	3269.7
12.5°	3534.8	3511.9	3449.7	3407.2	3358.1	3309.0	3263.2	3250.1	3227.2	3204.3	3201.0
15°	3554.5	3521.7	3443.2	3387.6	3315.5	3259.9	3210.8	3201.0	3181.4	3165.0	3165.0
17.5°	3574.1	3531.6	3433.4	3354.8	3266.4	3204.3	3158.4	3158.4	3145.3	3135.5	3135.5
20°	3583.9	3534.8	3413.7	3309.0	3207.5	3142.1	3099.5	3106.1	3102.8	3099.5	3099.5
22.5°	3606.8	3541.4	3397.4	3266.4	3145.3	3076.6	3037.3	3047.2	3043.9	3043.9	3047.2
25°	3642.8	3557.7	3384.3	3227.2	3086.4	3011.2	2968.6	2975.2	2975.2	2975.2	2975.2
27.5°	3691.9	3590.5	3381.0	3191.2	3027.5	2942.4	2890.1	2890.1	2877.0	2880.2	2883.5
30°	3767.2	3652.7	3387.6	3158.4	2965.3	2857.3	2795.1	2785.3	2782.0	2788.6	2791.9
32.5°	3858.9	3737.8	3426.8	3135.5	2899.9	2762.4	2683.9	2680.6	2670.8	2670.8	2670.8
35°	3973.4	3819.6	3462.8	3132.3	2834.4	2660.9	2575.8	2566.0	2543.1	2533.3	2533.3
37.5°	4120.7	3947.2	3505.4	3109.3	2778.8	2562.8	2461.3	2428.6	2402.4	2399.1	2399.1
40°	4300.7	4091.2	3567.6	3083.2	2719.9	2461.3	2327.1	2271.5	2274.7	2287.8	2287.8
42.5°	4513.5	4268.0	3646.1	3070.1	2634.8	2356.6	2170.0	2104.5	2127.4	2140.5	2143.8
45°	4762.2	4477.5	3734.5	3053.7	2556.2	2238.7	2003.1	1921.2	1931.1	1934.3	1937.6
47.5°	5050.2	4709.8	3826.1	3040.6	2467.8	2091.4	1819.8	1711.8	1708.5	1688.9	1695.4
50°	5351.3	4955.3	3921.0	3017.7	2359.8	1918.0	1626.7	1499.0	1472.8	1443.4	1446.7
52.5°	5672.1	5207.3	4009.4	2981.7	2225.6	1741.2	1443.4	1305.9	1253.6	1220.8	1227.4
55°	6025.6	5465.9	4094.5	2926.1	2084.9	1564.5	1279.7	1139.0	1073.5	1047.4	1050.6
57.5°	6349.6	5714.7	4156.7	2857.3	1931.1	1404.1	1135.7	998.3	955.7	952.4	955.7
60°	6663.8	5924.1	4182.9	2762.4	1774.0	1256.8	1001.5	896.8	867.3	883.7	887.0
62.5°	6928.9	6058.3	4169.8	2634.8	1613.6	1116.1	893.5	818.2	798.6	831.3	834.6
65°	7082.8	6100.9	4078.2	2451.5	1440.1	978.6	792.1	710.2	700.4	720.1	729.9
67.5°	6879.8	5835.8	3829.4	2199.5	1247.0	851.0	693.9	628.4	612.1	628.4	628.4
70°	6097.6	5056.8	3240.3	1800.1	1034.3	726.6	602.2	556.4	543.3	556.4	553.1
72.5°	5079.7	4205.8	2552.9	1404.1	815.0	612.1	523.7	481.1	468.0	454.9	448.4
75°	3940.7	3194.4	1852.5	1031.0	615.3	490.9	438.6	399.3	366.6	379.7	373.1
77.5°	2886.8	2242.0	1312.5	713.5	441.9	379.7	343.7	314.2	291.3	317.5	314.2
80°	1859.1	1449.9	877.2	477.9	304.4	265.1	252.0	235.7	258.6	337.1	343.7
82.5°	1135.7	919.7	523.7	310.9	199.7	176.7	163.6	163.6	265.1	291.3	294.6
85°	507.3	487.7	284.8	160.4	111.3	101.5	91.6	117.8	108.0	78.6	81.8
87.5°	81.8	85.1	62.2	55.6	42.5	42.5	32.7	22.9	16.4	9.8	9.8
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)