

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: P835913

Luminaire Tested: **ARCH3-110-740-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835913
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-110-740-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17979 lumens
Efficiency: N/A
Efficacy: 160.7 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

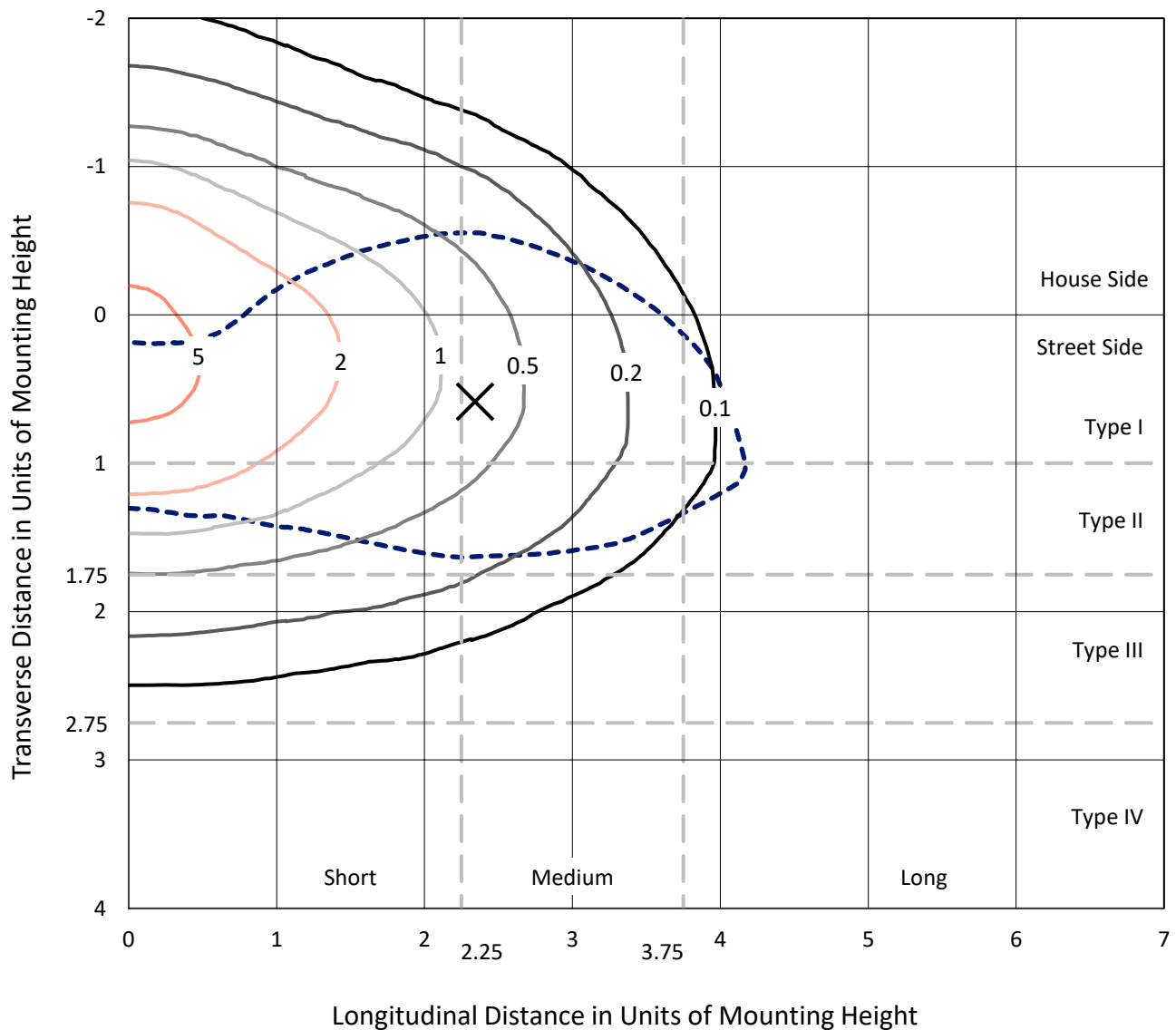
Input Watts (W): 111.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

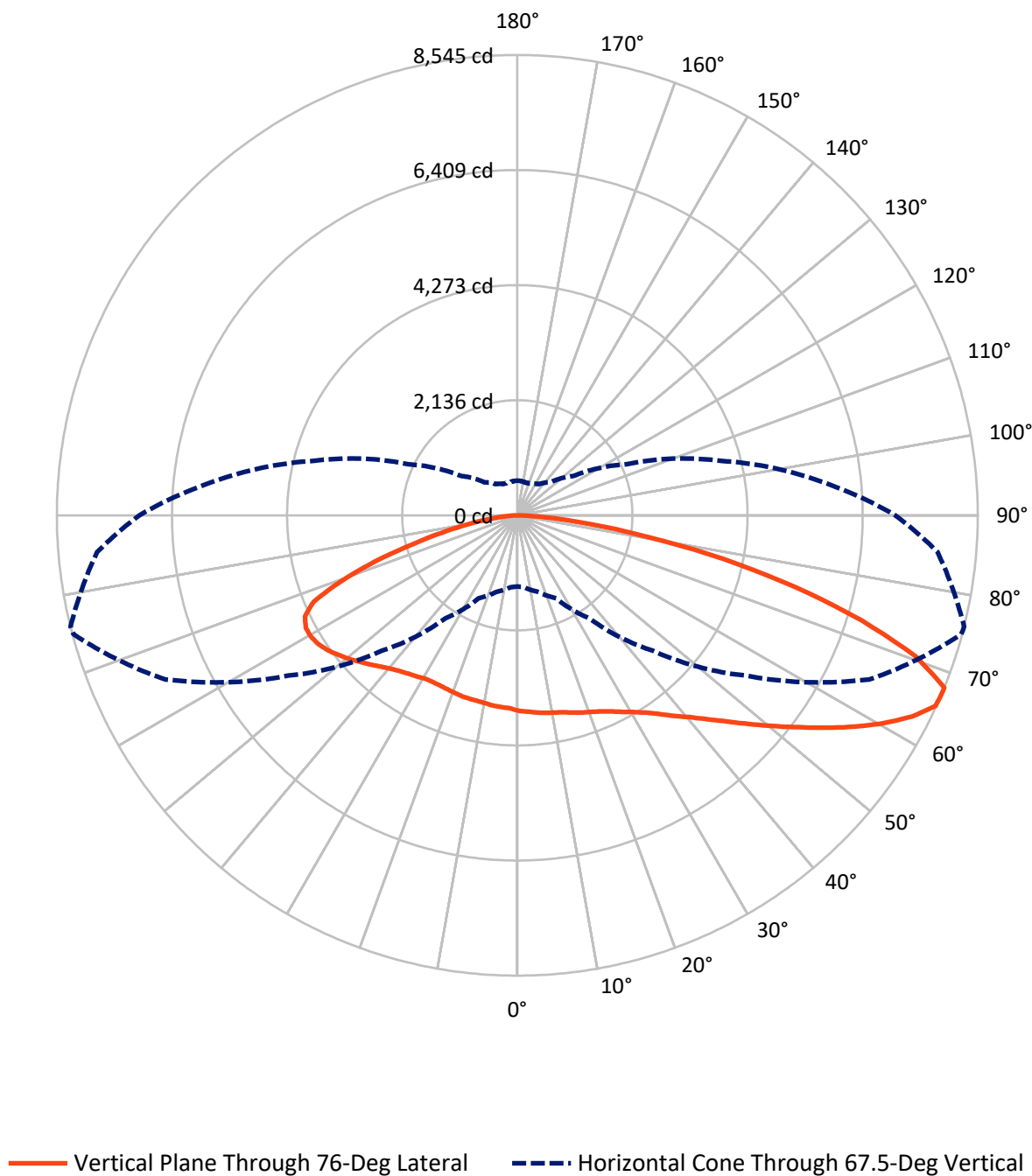
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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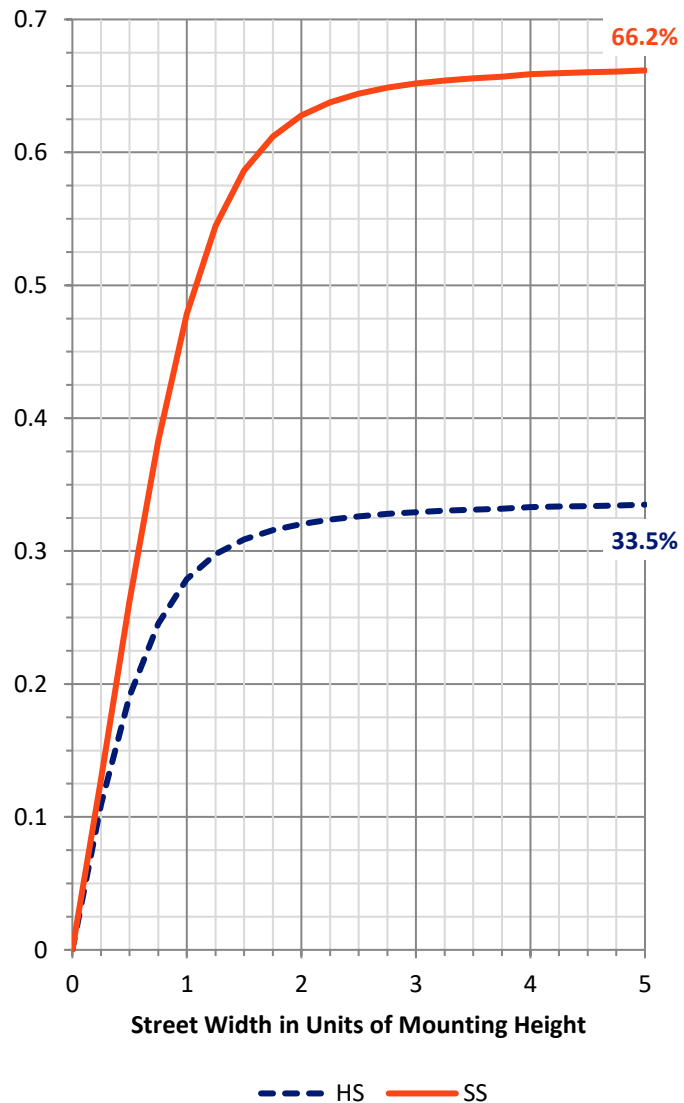
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6075.2	0.0	6075.2
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	11903.8	0.0	11903.8
	% Fixture	66.2	0.0	66.2
Total	Lumens	17979.0	0.0	17979.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.2	1.9
10°-20°	1070.6	6.0
20°-30°	1819.0	10.1
30°-40°	2588.2	14.4
40°-50°	3268.8	18.2
50°-60°	3539.1	19.7
60°-70°	3291.8	18.3
70°-80°	1768.0	9.8
80°-90°	283.3	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°	17979.0	100.0
0°-180°	17979.0	100.0

Coefficient of Utilization



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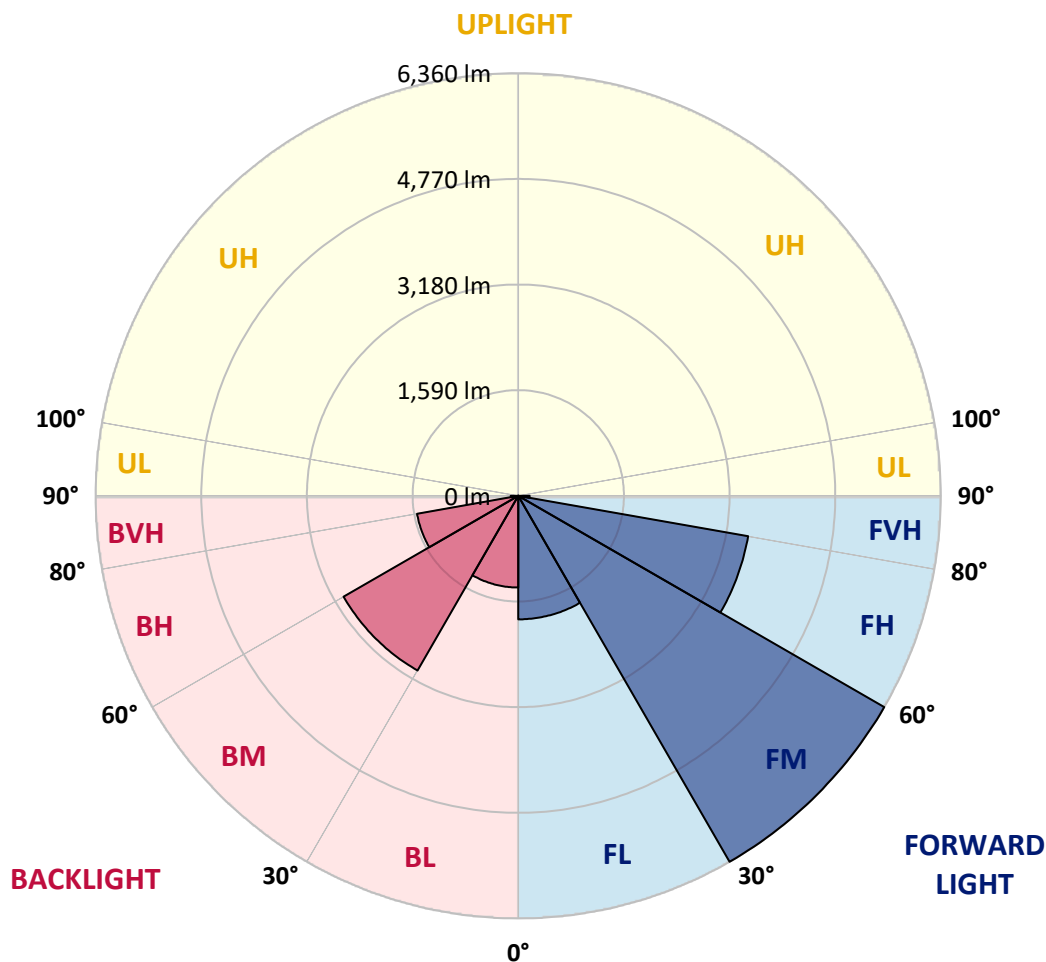
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1859.2	10.3			
FM	(30°-60°)	6360.3	35.4			
FH	(60°-80°)	3512.9	19.5			G2/5000
FVH	(80°-90°)	171.4	1.0			G2/225
BL	(0°-30°)	1380.6	7.7	B3/2500		
BM	(30°-60°)	3035.9	16.9	B3/5000		
BH	(60°-80°)	1546.8	8.6	B3/2500		G3/2500
BVH	(80°-90°)	111.9	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°	3631.7	3631.7	3631.7	3631.7	3631.7	3631.7	3631.7	3631.7	3631.7	3631.7	3631.7
2.5°	3741.9	3735.2	3708.5	3711.8	3711.8	3708.5	3668.4	3651.7	3651.7	3648.4	3611.7
5°	3875.4	3865.4	3835.3	3828.7	3815.3	3798.6	3735.2	3698.5	3681.8	3678.4	3628.4
7.5°	4032.3	4018.9	3982.2	3962.2	3928.8	3885.4	3805.3	3748.5	3708.5	3705.2	3635.1
10°	4189.2	4175.8	4132.4	4095.7	4049.0	3978.9	3875.4	3791.9	3728.5	3721.8	3638.4
12.5°	4376.1	4362.7	4309.3	4262.6	4192.5	4099.0	3962.2	3848.7	3761.9	3751.9	3648.4
15°	4573.0	4553.0	4499.6	4446.2	4359.4	4239.2	4075.7	3925.5	3815.3	3798.6	3678.4
17.5°	4736.6	4709.9	4666.5	4613.1	4516.3	4376.1	4189.2	4002.2	3865.4	3852.0	3708.5
20°	4876.8	4856.8	4810.0	4760.0	4656.5	4502.9	4296.0	4079.0	3912.1	3895.4	3731.9
22.5°	5010.3	4983.6	4956.9	4920.2	4806.7	4636.4	4419.5	4172.5	3972.2	3952.2	3761.9
25°	5163.8	5133.8	5123.8	5103.8	4970.2	4796.7	4569.7	4289.3	4055.6	4032.3	3815.3
27.5°	5354.1	5320.7	5300.7	5300.7	5140.5	4960.2	4729.9	4426.2	4152.4	4132.4	3882.1
30°	5554.4	5514.3	5484.3	5484.3	5304.0	5123.8	4886.8	4563.0	4262.6	4239.2	3968.9
32.5°	5731.3	5691.2	5657.9	5654.5	5467.6	5287.4	5050.4	4713.2	4396.1	4366.1	4075.7
35°	5868.2	5831.4	5801.4	5808.1	5631.2	5454.3	5233.9	4913.5	4563.0	4529.6	4215.9
37.5°	5951.6	5938.3	5921.6	5944.9	5781.4	5614.5	5424.2	5107.1	4753.3	4723.2	4389.4
40°	5995.0	5985.0	6051.8	6081.8	5908.2	5758.0	5614.5	5307.4	4960.2	4926.9	4589.7
42.5°	6058.4	6141.9	6168.6	6161.9	6001.7	5868.2	5788.1	5524.4	5203.9	5173.9	4830.1
45°	5831.4	5811.4	5958.3	6038.4	6008.4	5938.3	5951.6	5784.7	5487.6	5457.6	5107.1
47.5°	5527.7	5501.0	5584.4	5781.4	5898.2	5965.0	6098.5	6055.1	5814.8	5788.1	5430.9
50°	4886.8	4923.5	5233.9	5497.6	5728.0	5958.3	6222.0	6345.5	6175.3	6148.6	5778.0
52.5°	4175.8	4212.5	4536.3	5143.8	5521.0	5908.2	6312.1	6635.9	6565.8	6535.8	6148.6
55°	3658.4	3738.5	4105.7	4546.3	5227.3	5751.3	6365.5	6933.0	6986.4	6959.7	6552.4
57.5°	3144.4	3204.5	3481.5	3872.1	4826.7	5477.6	6362.2	7210.0	7427.0	7400.3	6963.0
60°	2540.2	2617.0	2837.3	3257.9	4292.6	5150.5	6268.7	7427.0	7850.9	7830.9	7360.2
62.5°	2126.3	2149.7	2306.5	2670.4	3605.0	4736.6	6058.4	7543.8	8234.8	8221.4	7717.4
65°	1712.4	1715.7	1859.3	2163.0	2940.8	4222.5	5701.3	7500.4	8525.2	8531.9	7974.4
67.5°	1321.8	1338.5	1468.7	1699.0	2336.6	3554.9	5190.6	7206.7	8528.5	8545.2	7827.6
70°	914.6	928.0	1124.9	1348.5	1805.8	2833.9	4499.6	6428.9	7827.6	7840.9	7016.4
72.5°	644.2	650.9	861.2	1078.2	1412.0	2136.3	3394.7	5317.4	6672.6	6682.6	5901.5
75°	480.7	487.3	607.5	817.8	1081.5	1478.7	2319.9	4072.3	5330.7	5330.7	4659.8
77.5°	340.5	343.8	393.9	564.1	721.0	998.1	1395.3	2667.0	3912.1	3918.8	3394.7
80°	230.3	233.7	257.0	380.5	450.6	540.8	757.7	1398.6	2466.8	2476.8	2156.3
82.5°	120.2	126.8	143.5	193.6	227.0	300.4	390.5	711.0	1365.2	1391.9	1295.1
85°	46.7	46.7	53.4	63.4	83.4	116.8	180.3	270.4	617.5	637.6	570.8
87.5°	16.7	16.7	20.0	20.0	23.4	26.7	30.0	40.1	70.1	70.1	66.8
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°	3631.7	3631.7	3631.7	3631.7	3631.7	3631.7	3631.7	3631.7	3631.7	3631.7	3631.7
2.5°	3598.3	3598.3	3581.6	3588.3	3585.0	3578.3	3571.6	3581.6	3571.6	3548.3	3544.9
5°	3605.0	3598.3	3571.6	3568.3	3558.3	3544.9	3528.2	3534.9	3518.2	3498.2	3494.9
7.5°	3608.4	3595.0	3558.3	3544.9	3524.9	3498.2	3471.5	3471.5	3448.1	3428.1	3424.8
10°	3601.7	3585.0	3534.9	3508.2	3471.5	3431.4	3394.7	3384.7	3358.0	3334.6	3334.6
12.5°	3605.0	3581.6	3518.2	3474.8	3424.8	3374.7	3328.0	3314.6	3291.2	3267.9	3264.5
15°	3625.0	3591.7	3511.6	3454.8	3381.4	3324.6	3274.6	3264.5	3244.5	3227.8	3227.8
17.5°	3645.1	3601.7	3501.5	3421.4	3331.3	3267.9	3221.1	3221.1	3207.8	3197.8	3197.8
20°	3655.1	3605.0	3481.5	3374.7	3271.2	3204.5	3161.1	3167.7	3164.4	3161.1	3161.1
22.5°	3678.4	3611.7	3464.8	3331.3	3207.8	3137.7	3097.6	3107.7	3104.3	3104.3	3107.7
25°	3715.2	3628.4	3451.5	3291.2	3147.7	3070.9	3027.5	3034.2	3034.2	3034.2	3034.2
27.5°	3765.2	3661.8	3448.1	3254.5	3087.6	3000.8	2947.4	2947.4	2934.1	2937.4	2940.8
30°	3842.0	3725.2	3454.8	3221.1	3024.2	2914.1	2850.6	2840.6	2837.3	2844.0	2847.3
32.5°	3935.5	3812.0	3494.9	3197.8	2957.4	2817.3	2737.1	2733.8	2723.8	2723.8	2723.8
35°	4052.3	3895.4	3531.6	3194.4	2890.7	2713.8	2627.0	2617.0	2593.6	2583.6	2583.6
37.5°	4202.5	4025.6	3575.0	3171.1	2833.9	2613.6	2510.2	2476.8	2450.1	2446.7	2446.7
40°	4386.1	4172.5	3638.4	3144.4	2773.9	2510.2	2373.3	2316.6	2319.9	2333.2	2333.2
42.5°	4603.1	4352.7	3718.5	3131.0	2687.1	2403.3	2213.1	2146.3	2169.7	2183.0	2186.4
45°	4856.8	4566.4	3808.6	3114.3	2607.0	2283.2	2042.8	1959.4	1969.4	1972.7	1976.1
47.5°	5150.5	4803.3	3902.1	3101.0	2516.8	2133.0	1855.9	1745.8	1742.4	1722.4	1729.1
50°	5457.6	5053.7	3998.9	3077.6	2406.7	1956.1	1659.0	1528.8	1502.1	1472.0	1475.4
52.5°	5784.7	5310.7	4089.0	3040.9	2269.8	1775.8	1472.0	1331.9	1278.4	1245.1	1251.7
55°	6145.2	5574.4	4175.8	2984.2	2126.3	1595.6	1305.1	1161.6	1094.9	1068.2	1071.5
57.5°	6475.7	5828.1	4239.2	2914.1	1969.4	1432.0	1158.3	1018.1	974.7	971.4	974.7
60°	6796.1	6041.7	4265.9	2817.3	1809.2	1281.8	1021.4	914.6	884.6	901.3	904.6
62.5°	7066.5	6178.6	4252.6	2687.1	1645.6	1138.2	911.3	834.5	814.5	847.8	851.2
65°	7223.4	6222.0	4159.1	2500.1	1468.7	998.1	807.8	724.3	714.3	734.4	744.4
67.5°	7016.4	5951.6	3905.4	2243.1	1271.8	867.9	707.7	640.9	624.2	640.9	640.9
70°	6218.7	5157.2	3304.6	1835.9	1054.8	741.0	614.2	567.5	554.1	567.5	564.1
72.5°	5180.5	4289.3	2603.6	1432.0	831.2	624.2	534.1	490.7	477.3	464.0	457.3
75°	4018.9	3257.9	1889.3	1051.5	627.5	500.7	447.3	407.2	373.9	387.2	380.5
77.5°	2944.1	2286.5	1338.5	727.7	450.6	387.2	350.5	320.4	297.1	323.8	320.4
80°	1896.0	1478.7	894.6	487.3	310.4	270.4	257.0	240.3	263.7	343.8	350.5
82.5°	1158.3	938.0	534.1	317.1	203.6	180.3	166.9	166.9	270.4	297.1	300.4
85°	517.4	497.4	290.4	163.6	113.5	103.5	93.5	120.2	110.2	80.1	83.4
87.5°	83.4	86.8	63.4	56.7	43.4	43.4	33.4	23.4	16.7	10.0	10.0
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)