

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: P840948

Luminaire Tested: **ARCH4-110-730-U-T2R**

Issue Date: 5/27/2024

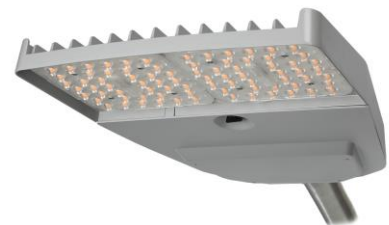
Test Information

Test Method: LM-79-08
Report Number: P840948
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-110-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 920mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19145 lumens
Efficiency: N/A
Efficacy: 170.0 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

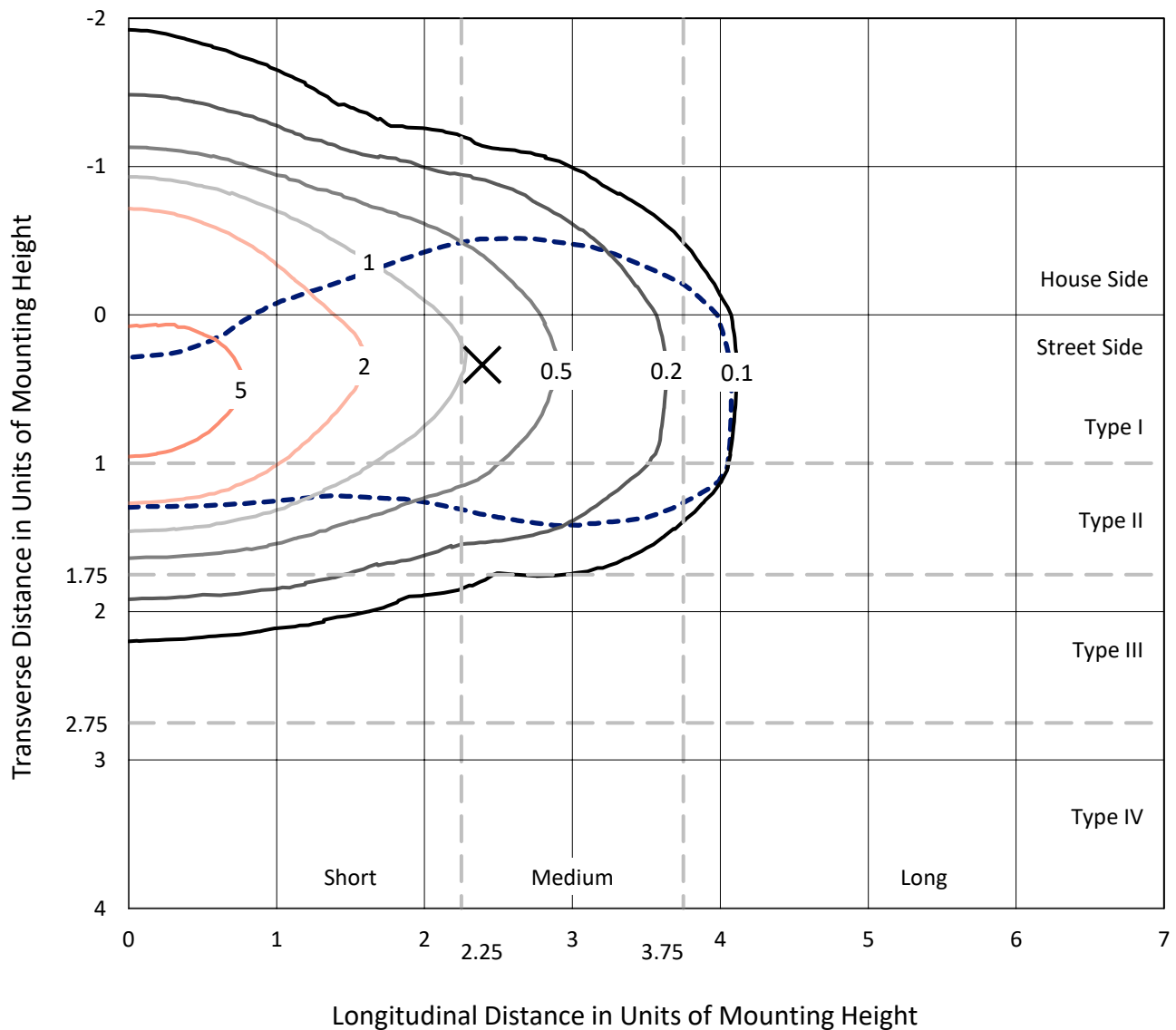
Input Watts (W): 112.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

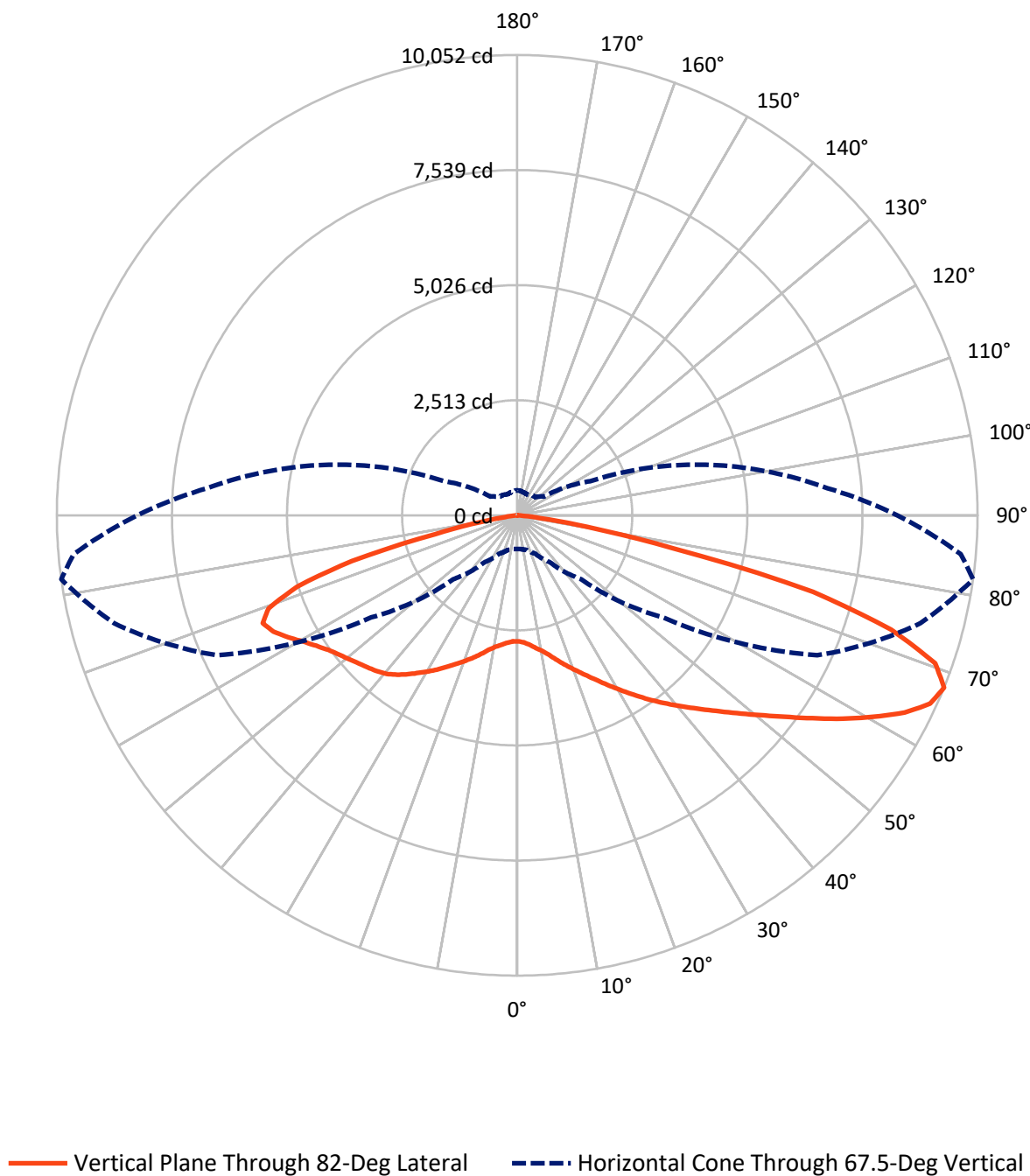
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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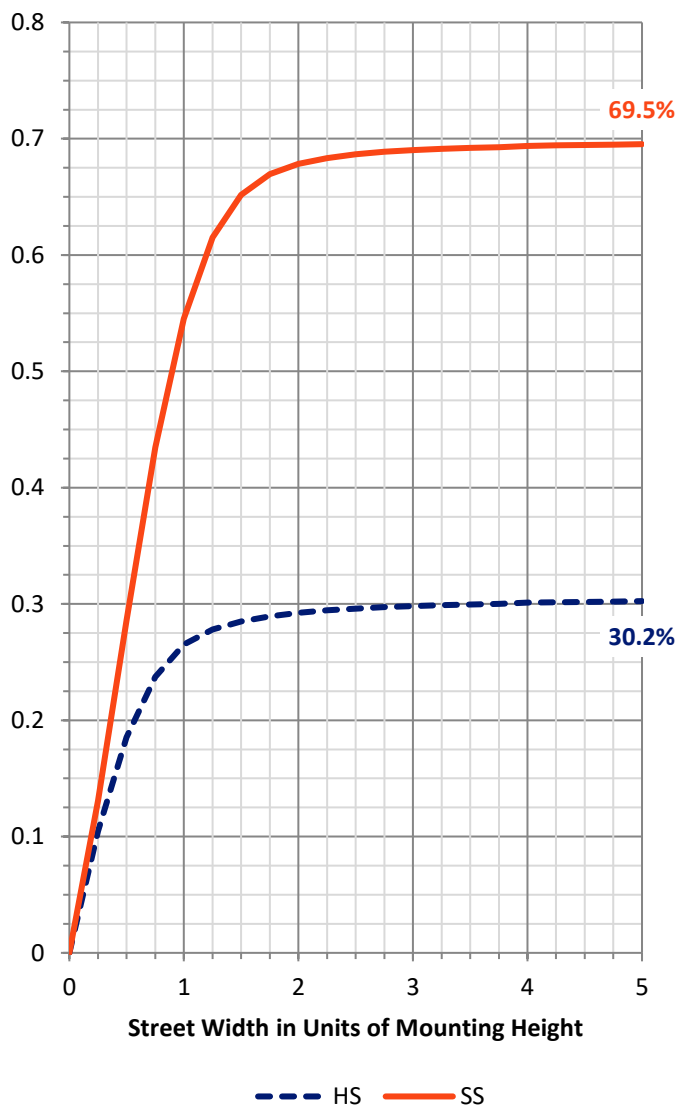
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5830.4	0.0	5830.4
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	13314.6	0.0	13314.6
	% Fixture	69.5	0.0	69.5
Total	Lumens	19145.0	0.0	19145.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.4	1.5
10°-20°	1024.5	5.4
20°-30°	2059.0	10.8
30°-40°	3234.3	16.9
40°-50°	3940.1	20.6
50°-60°	3722.9	19.4
60°-70°	3074.2	16.1
70°-80°	1674.0	8.7
80°-90°	131.6	0.7
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°	19145.0	100.0
0°-180°	19145.0	100.0

Coefficient of Utilization



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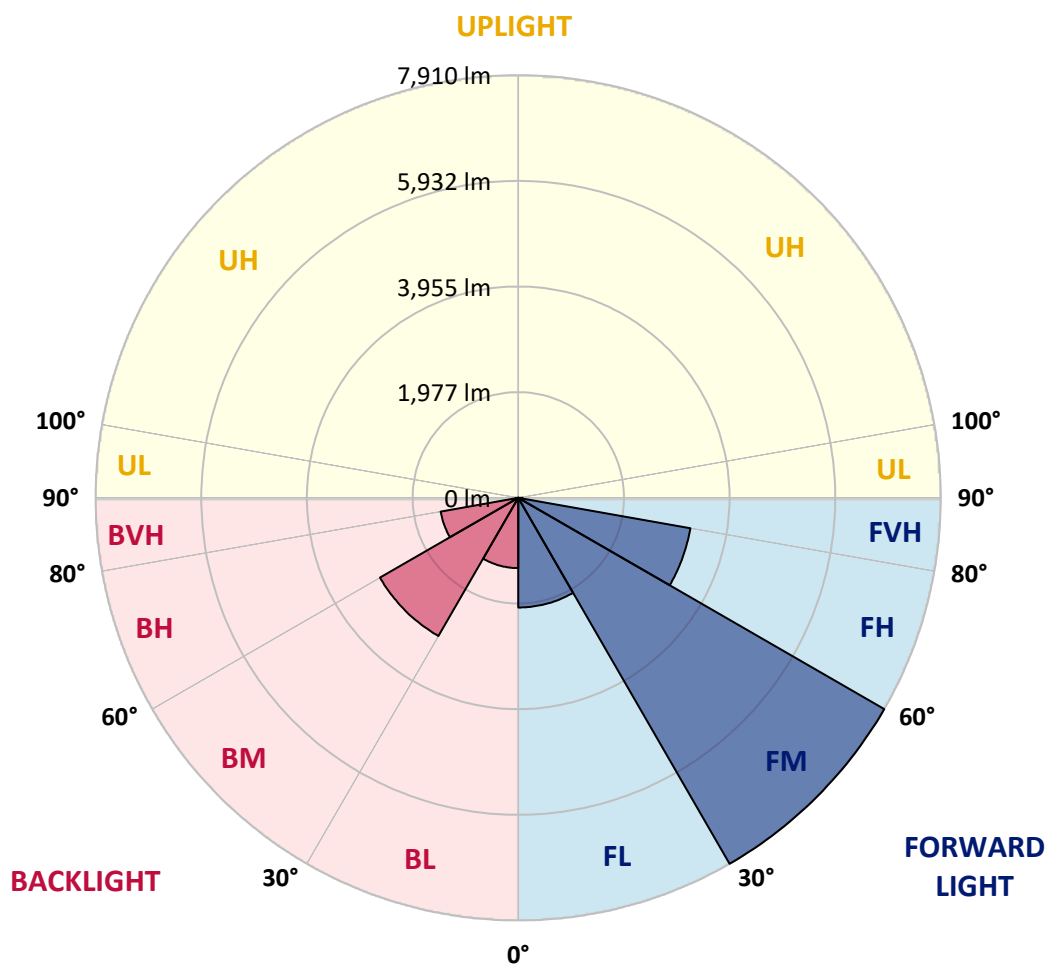
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2053.0	10.7			
FM	(30°-60°)	7909.6	41.3			
FH	(60°-80°)	3272.6	17.1			G2/5000
FVH	(80°-90°)	79.3	0.4			G1/100
BL	(0°-30°)	1314.8	6.9	B3/2500		
BM	(30°-60°)	2987.6	15.6	B3/5000		
BH	(60°-80°)	1475.7	7.7	B3/2500		G3/2500
BVH	(80°-90°)	52.3	0.3			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2752.1	2752.1	2752.1	2752.1	2752.1	2752.1	2752.1	2752.1	2752.1	2752.1	2752.1
2.5°	2877.2	2877.2	2899.4	2899.4	2880.0	2849.4	2841.0	2807.7	2777.1	2777.1	2779.9
5°	3152.4	3149.6	3166.3	3144.0	3096.8	3035.6	2993.9	2921.7	2860.5	2841.0	2838.3
7.5°	3488.8	3486.0	3494.3	3458.2	3369.2	3269.1	3185.7	3069.0	2968.9	2927.2	2916.1
10°	3864.0	3861.3	3852.9	3791.8	3672.2	3516.6	3391.5	3230.2	3080.1	3013.4	2999.5
12.5°	4294.9	4289.4	4269.9	4180.9	4016.9	3816.8	3636.1	3427.6	3227.4	3135.7	3105.1
15°	4775.8	4767.5	4731.4	4622.9	4403.3	4150.4	3916.9	3650.0	3405.4	3285.8	3244.1
17.5°	5281.8	5281.8	5226.2	5064.9	4820.3	4506.2	4217.1	3877.9	3591.6	3444.3	3394.2
20°	5796.1	5793.3	5723.8	5529.2	5240.1	4878.7	4511.7	4139.2	3783.4	3605.5	3544.4
22.5°	6338.1	6332.6	6246.4	6024.0	5679.3	5270.7	4842.6	4397.8	3994.7	3780.6	3702.8
25°	6960.8	6952.5	6846.9	6574.4	6165.8	5704.3	5215.1	4700.8	4236.5	3975.2	3883.5
27.5°	7622.4	7611.3	7486.2	7169.3	6721.8	6165.8	5626.5	5051.0	4503.4	4192.1	4089.2
30°	8211.8	8203.4	8067.2	7742.0	7227.7	6624.5	6018.4	5401.3	4784.2	4422.8	4294.9
32.5°	8656.6	8656.6	8534.2	8214.6	7680.8	7063.7	6413.2	5732.1	5076.1	4670.2	4520.1
35°	8926.2	8934.5	8828.9	8573.2	8070.0	7477.9	6821.8	6121.3	5387.4	4934.3	4773.1
37.5°	8965.1	8992.9	8931.8	8759.4	8339.6	7822.6	7222.1	6496.6	5709.9	5201.2	5020.5
40°	8784.4	8803.9	8806.7	8740.0	8450.8	8070.0	7575.2	6894.1	6051.8	5481.9	5273.4
42.5°	8423.0	8436.9	8462.0	8481.4	8370.2	8178.4	7844.8	7263.8	6416.0	5768.3	5523.6
45°	7956.0	7953.2	7994.9	8078.3	8072.8	8117.3	7994.9	7600.2	6794.0	6093.5	5801.6
47.5°	7258.3	7244.4	7391.7	7580.7	7675.3	7883.7	7997.7	7864.3	7205.5	6452.1	6118.5
50°	6165.8	6151.9	6474.3	6919.1	7197.1	7514.0	7844.8	8022.7	7636.3	6855.2	6463.2
52.5°	4837.0	4823.1	5231.7	6010.1	6616.1	7077.6	7536.3	8058.9	8045.0	7305.5	6852.4
55°	3597.2	3586.0	3983.6	4825.9	5807.2	6571.6	7158.2	7964.4	8428.6	7822.6	7325.0
57.5°	2535.3	2529.7	2874.4	3572.1	4767.5	5954.5	6794.0	7780.9	8781.6	8384.1	7858.7
60°	1779.1	1770.8	2021.0	2560.3	3605.5	5023.2	6432.6	7536.3	9045.7	8937.3	8425.8
62.5°	1198.1	1192.6	1370.5	1820.8	2560.3	3866.8	5885.0	7372.2	9195.9	9493.3	8998.5
65°	909.0	906.2	986.9	1234.3	1812.5	2777.1	5014.9	7352.8	9215.3	9910.3	9485.0
67.5°	733.9	736.7	781.1	922.9	1253.7	1973.7	3889.1	7230.5	9112.5	10052.1	9721.2
70°	600.5	600.5	619.9	714.4	925.7	1331.6	2715.9	6674.5	8826.1	9682.3	9440.5
72.5°	458.7	461.5	522.6	578.2	697.8	934.0	1740.2	5523.6	8150.6	8537.0	8353.5
75°	364.2	361.4	397.5	475.4	542.1	667.2	1067.5	3961.3	6935.8	6671.7	6555.0
77.5°	261.3	258.5	286.3	353.0	411.4	472.6	636.6	1998.7	3772.3	3466.5	3380.3
80°	177.9	172.4	197.4	244.6	272.4	278.0	311.3	767.2	1645.7	1551.2	1531.7
82.5°	91.7	91.7	105.6	139.0	141.8	144.6	139.0	247.4	544.9	508.7	486.5
85°	36.1	36.1	38.9	47.3	47.3	50.0	50.0	63.9	58.4	55.6	52.8
87.5°	2.8	2.8	5.6	5.6	8.3	8.3	8.3	11.1	13.9	13.9	13.9
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°	2752.1	2752.1	2752.1	2752.1	2752.1	2752.1	2752.1	2752.1	2752.1	2752.1	2752.1
2.5°	2774.3	2763.2	2727.1	2718.7	2713.2	2704.8	2707.6	2688.1	2679.8	2682.6	2671.5
5°	2824.4	2804.9	2760.4	2741.0	2735.4	2727.1	2735.4	2721.5	2707.6	2713.2	2707.6
7.5°	2893.9	2866.1	2810.5	2791.0	2788.2	2779.9	2791.0	2779.9	2768.8	2774.3	2763.2
10°	2966.1	2930.0	2868.8	2849.4	2849.4	2846.6	2857.7	2841.0	2829.9	2832.7	2827.1
12.5°	3071.8	3024.5	2957.8	2941.1	2932.8	2941.1	2943.9	2921.7	2902.2	2905.0	2896.6
15°	3199.6	3146.8	3074.6	3049.5	3044.0	3041.2	3030.1	3002.3	2977.3	2974.5	2966.1
17.5°	3338.6	3271.9	3185.7	3160.7	3135.7	3127.4	3099.6	3063.4	3024.5	3024.5	3013.4
20°	3472.1	3397.0	3294.2	3258.0	3221.9	3188.5	3141.3	3082.9	3032.9	3024.5	3013.4
22.5°	3616.6	3527.7	3408.1	3355.3	3291.4	3224.7	3144.0	3066.2	3002.3	2988.4	2980.0
25°	3777.9	3666.7	3524.9	3447.1	3344.2	3241.3	3121.8	3021.7	2946.7	2924.4	2918.9
27.5°	3955.8	3822.3	3650.0	3536.0	3385.9	3224.7	3071.8	2952.2	2860.5	2832.7	2824.4
30°	4136.5	3978.0	3764.0	3597.2	3385.9	3171.8	2980.0	2841.0	2735.4	2696.5	2690.9
32.5°	4317.2	4139.2	3866.8	3630.5	3352.5	3082.9	2860.5	2696.5	2577.0	2529.7	2540.8
35°	4534.0	4317.2	3961.3	3644.4	3296.9	2974.5	2724.3	2532.5	2410.2	2368.5	2376.8
37.5°	4759.2	4495.1	4036.4	3633.3	3219.1	2852.2	2571.4	2385.1	2232.2	2160.0	2168.3
40°	4953.8	4656.3	4089.2	3594.4	3119.0	2713.2	2421.3	2176.6	1965.4	1895.9	1887.5
42.5°	5137.2	4775.8	4117.0	3536.0	3005.1	2551.9	2207.2	1893.1	1681.8	1595.7	1598.4
45°	5329.0	4892.6	4105.9	3458.2	2863.3	2362.9	1932.0	1615.1	1428.9	1351.0	1353.8
47.5°	5548.6	5017.7	4094.8	3374.8	2690.9	2118.3	1667.9	1370.5	1209.2	1153.7	1148.1
50°	5782.2	5156.7	4080.9	3271.9	2499.1	1845.8	1406.6	1142.5	1006.3	970.2	961.8
52.5°	6046.2	5306.8	4072.5	3149.6	2268.4	1556.7	1173.1	942.4	850.6	825.6	822.8
55°	6363.2	5481.9	4083.6	3002.3	1990.4	1284.3	975.7	811.7	750.6	736.7	733.9
57.5°	6749.6	5707.1	4117.0	2829.9	1698.5	1048.0	831.2	731.1	692.2	681.1	681.1
60°	7169.3	5962.8	4178.2	2635.3	1406.6	864.5	736.7	667.2	650.5	664.4	664.4
62.5°	7622.4	6263.1	4286.6	2399.0	1134.2	731.1	661.6	614.4	603.2	631.0	633.8
65°	8042.2	6555.0	4356.1	2115.5	900.7	633.8	603.2	561.5	567.1	594.9	592.1
67.5°	8300.7	6796.8	4258.8	1759.7	714.4	561.5	542.1	505.9	519.8	542.1	544.9
70°	8142.3	6660.6	3777.9	1328.8	558.8	489.3	475.4	453.1	464.2	492.0	503.2
72.5°	7366.7	5965.6	2938.3	897.9	450.3	411.4	417.0	405.9	419.8	444.8	469.8
75°	5979.5	4509.0	1970.9	575.4	355.8	350.3	358.6	350.3	355.8	380.8	394.7
77.5°	3121.8	2198.9	981.3	358.6	264.1	272.4	286.3	289.1	305.8	311.3	316.9
80°	1456.7	989.6	408.6	200.2	175.1	191.8	219.6	222.4	228.0	236.3	239.1
82.5°	475.4	297.4	189.0	108.4	100.1	108.4	141.8	169.6	172.4	189.0	189.0
85°	50.0	30.6	41.7	44.5	38.9	47.3	63.9	61.2	27.8	16.7	16.7
87.5°	13.9	11.1	13.9	13.9	11.1	11.1	8.3	2.8	0.0	0.0	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)