

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: P836475

Luminaire Tested: **ARCH3-190-730-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-190-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24046 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 189.4
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



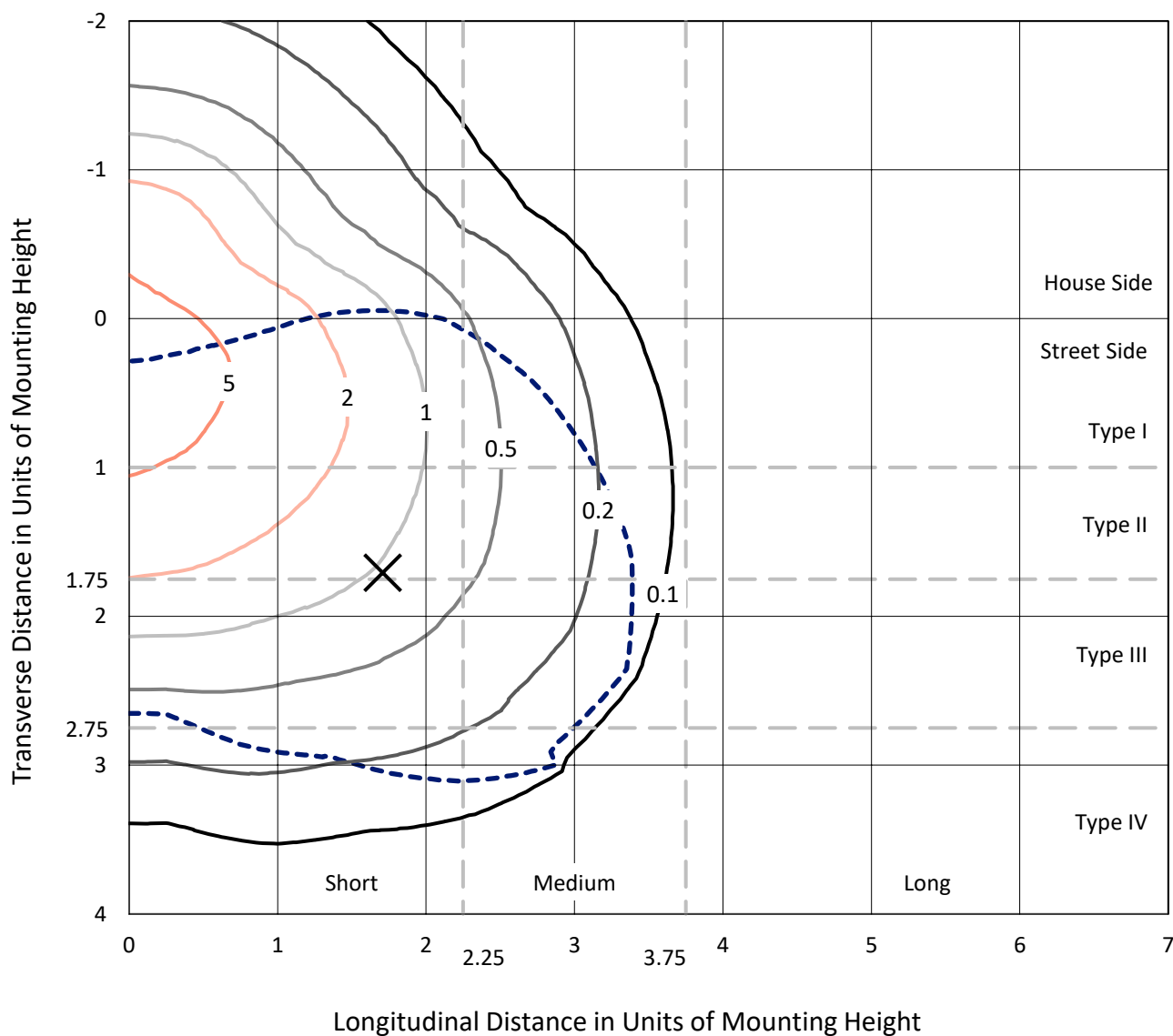
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

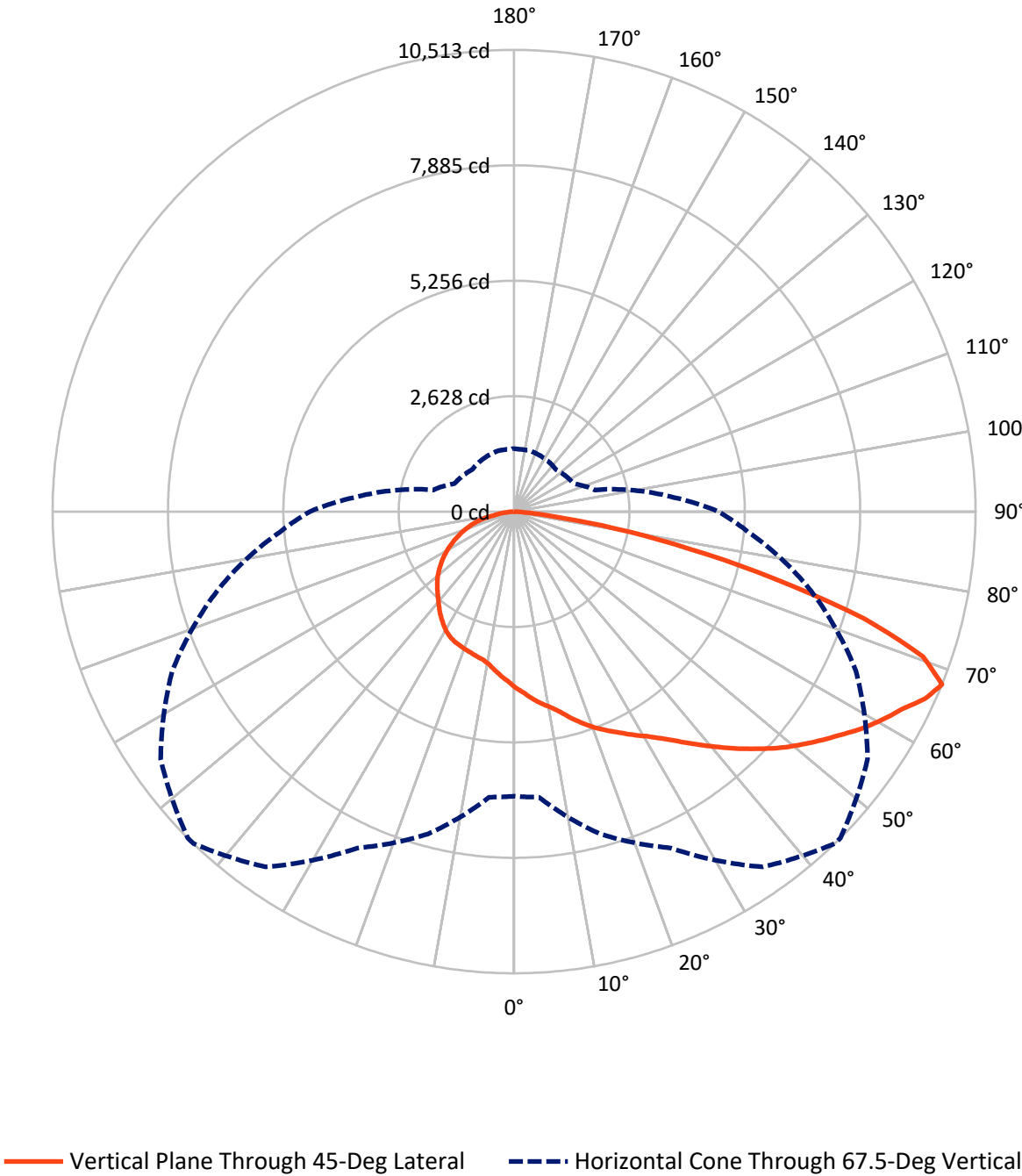


Based on 25 foot mounting height. Maximum calculated value = 7.5 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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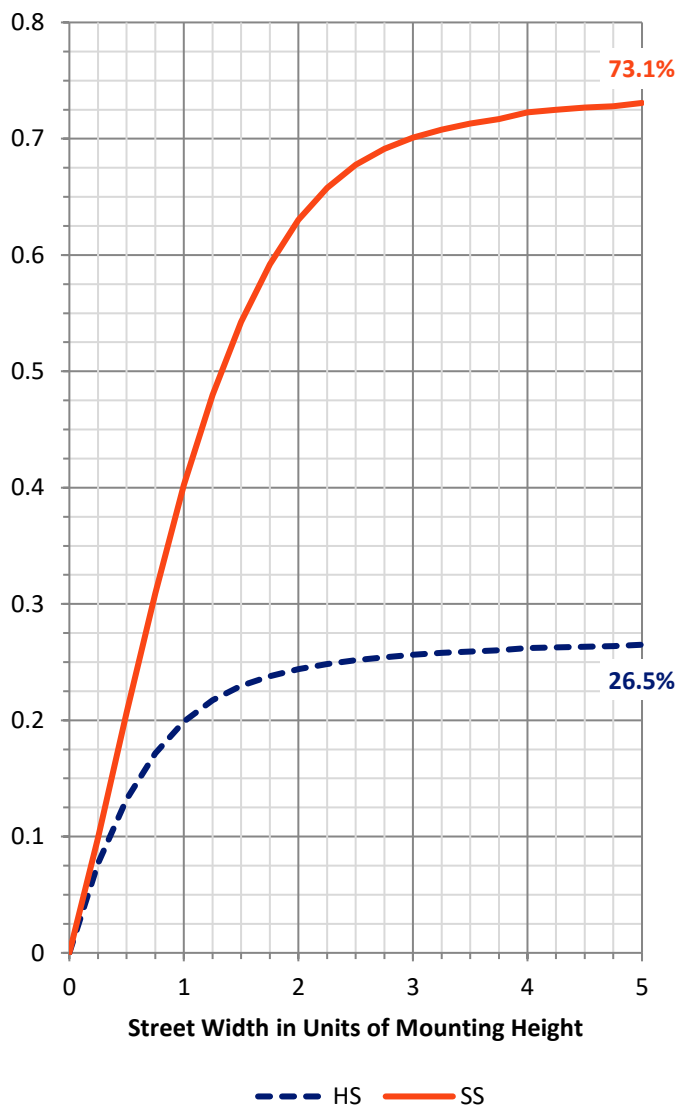
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6423.9	0.0	6423.9
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	17622.1	0.0	17622.1
	% Fixture	73.3	0.0	73.3
Total	Lumens	24046.0	0.0	24046.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.0	1.6
10°-20°	1186.1	4.9
20°-30°	2047.4	8.5
30°-40°	3019.3	12.6
40°-50°	4090.5	17.0
50°-60°	4999.6	20.8
60°-70°	5156.3	21.4
70°-80°	2824.3	11.7
80°-90°	338.5	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°	24046.0	100.0
0°-180°	24046.0	100.0

Coefficient of Utilization



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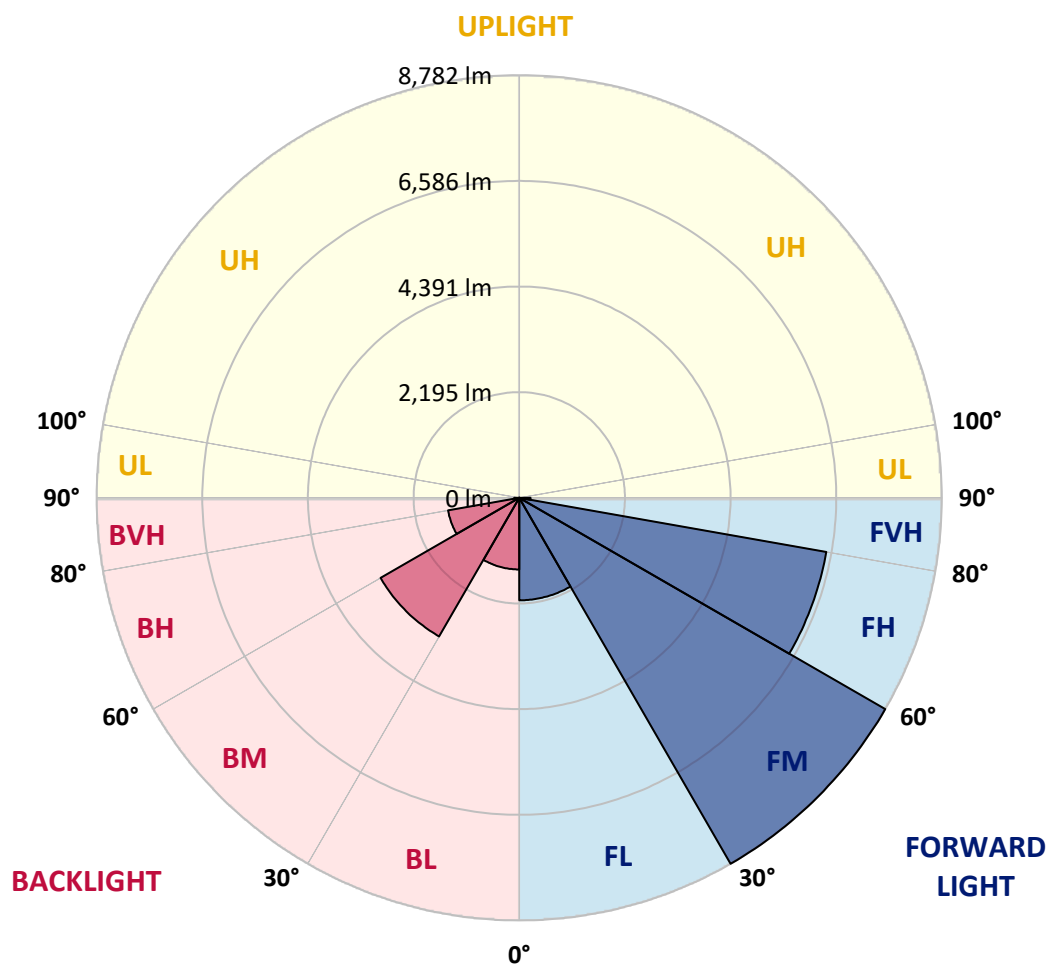
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2128.7	8.9			
FM	(30°-60°)	8781.8	36.5			
FH	(60°-80°)	6478.3	26.9			G3/7500
FVH	(80°-90°)	233.2	1.0			G3/500
BL	(0°-30°)	1488.8	6.2	B3/2500		
BM	(30°-60°)	3327.5	13.8	B3/5000		
BH	(60°-80°)	1502.3	6.2	B3/2500		G3/2500
BVH	(80°-90°)	105.3	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°	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4
2.5°	4186.1	4182.4	4189.7	4164.1	4131.2	4127.5	4127.5	4105.6	4079.9	4028.7	3988.5
5°	4383.6	4376.3	4380.0	4343.4	4299.5	4277.5	4273.9	4226.3	4167.8	4087.3	4014.1
7.5°	4566.6	4559.3	4555.6	4515.4	4449.5	4412.9	4409.3	4339.7	4270.2	4145.8	4039.7
10°	4738.6	4731.3	4723.9	4669.1	4588.6	4533.7	4526.4	4438.5	4350.7	4197.0	4061.6
12.5°	4958.1	4943.5	4936.2	4870.3	4753.2	4694.7	4683.7	4566.6	4456.8	4270.2	4105.6
15°	5188.7	5177.7	5166.7	5104.5	4972.8	4895.9	4877.6	4731.3	4581.2	4365.4	4171.4
17.5°	5360.6	5349.7	5349.7	5294.8	5174.0	5086.2	5071.6	4895.9	4709.3	4453.2	4222.6
20°	5466.8	5455.8	5466.8	5433.8	5342.3	5269.2	5254.5	5060.6	4837.4	4533.7	4266.6
22.5°	5543.6	5532.6	5550.9	5536.3	5470.4	5426.5	5415.5	5225.3	4969.1	4617.8	4310.5
25°	5679.0	5679.0	5679.0	5653.4	5591.2	5576.5	5576.5	5411.9	5137.4	4727.6	4376.3
27.5°	5949.8	5935.1	5916.8	5843.6	5737.5	5733.9	5755.8	5602.1	5331.4	4870.3	4456.8
30°	6348.6	6341.3	6271.8	6118.1	5938.8	5920.5	5935.1	5807.1	5539.9	5020.3	4548.3
32.5°	6864.5	6838.9	6696.2	6465.7	6209.6	6125.4	6154.7	6019.3	5759.5	5174.0	4636.1
35°	7230.5	7237.8	7135.3	6926.8	6623.0	6399.8	6421.8	6257.1	5997.3	5346.0	4745.9
37.5°	7651.3	7676.9	7523.2	7365.8	7084.1	6703.5	6725.5	6502.3	6235.2	5561.9	4863.0
40°	8233.1	8181.8	7922.0	7735.4	7424.4	7021.9	7040.2	6776.7	6509.6	5766.8	4998.4
42.5°	8719.7	8628.3	8313.6	8075.7	7702.5	7358.5	7376.8	7073.1	6787.7	5993.7	5148.4
45°	9418.6	9166.1	8712.4	8595.3	7987.9	7687.9	7706.1	7387.8	7080.4	6235.2	5309.4
47.5°	9824.8	9422.3	9133.2	9071.0	8302.6	8028.2	8050.1	7720.8	7395.1	6509.6	5477.7
50°	9799.2	9539.4	9455.2	9301.5	8580.7	8346.5	8368.5	8064.7	7713.5	6780.4	5638.7
52.5°	9630.9	9678.4	9634.5	9378.4	8858.8	8653.9	8679.5	8405.0	8039.1	7032.9	5788.8
55°	9890.7	9923.6	9839.4	9502.8	9166.1	8961.2	8990.5	8763.6	8361.1	7256.1	5916.8
57.5°	10201.7	10084.6	10000.4	9722.3	9484.5	9294.2	9327.1	9129.6	8639.2	7435.4	6015.6
60°	10187.0	9941.9	10026.0	9737.0	9700.4	9601.6	9630.9	9429.6	8851.5	7567.1	6055.9
62.5°	9436.9	9305.2	9729.7	9630.9	9876.0	9876.0	9912.6	9612.6	8979.5	7622.0	6033.9
65°	8134.3	8141.6	8888.0	9297.9	10084.6	10252.9	10282.2	9726.0	8906.3	7461.0	5829.0
67.5°	6480.3	6527.9	7600.0	8452.6	9876.0	10509.0	10512.7	9828.4	8591.7	7007.3	5353.3
70°	4742.2	4778.8	6044.9	7080.4	8891.7	9941.9	9883.3	9539.4	7907.4	6216.9	4610.5
72.5°	3205.4	3238.3	4541.0	5437.5	7296.3	8467.2	8339.2	8430.7	6740.1	5108.2	3706.7
75°	2155.2	2195.5	3231.0	3889.7	5368.0	6429.1	6143.7	6385.2	5214.3	3867.7	2704.1
77.5°	1357.5	1383.2	2052.8	2550.4	3666.5	4376.3	4090.9	4094.6	3004.2	2082.1	1452.7
80°	863.6	870.9	1244.1	1471.0	2122.3	2630.9	2327.2	1891.8	1353.9	1105.1	867.2
82.5°	501.3	490.3	742.8	830.6	1009.9	998.9	827.0	783.1	592.8	552.5	442.8
85°	201.3	186.6	325.7	303.7	307.4	325.7	241.5	241.5	193.9	150.0	109.8
87.5°	40.3	40.3	43.9	40.3	40.3	43.9	32.9	32.9	29.3	29.3	29.3
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°	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4
2.5°	3981.1	3973.8	3955.5	3908.0	3882.3	3867.7	3845.8	3838.4	3834.8	3838.4	3849.4
5°	3992.1	3966.5	3915.3	3838.4	3787.2	3754.3	3717.7	3703.0	3692.1	3692.1	3703.0
7.5°	3999.4	3959.2	3871.4	3757.9	3684.8	3633.5	3589.6	3571.3	3567.7	3578.6	3582.3
10°	4003.1	3944.6	3820.1	3677.4	3582.3	3516.4	3472.5	3461.5	3472.5	3494.5	3498.1
12.5°	4028.7	3948.2	3790.9	3622.5	3509.1	3443.3	3410.3	3410.3	3439.6	3479.8	3483.5
15°	4072.6	3973.8	3776.2	3578.6	3461.5	3403.0	3392.0	3410.3	3454.2	3516.4	3523.8
17.5°	4105.6	3988.5	3743.3	3520.1	3399.3	3362.7	3381.0	3425.0	3487.2	3571.3	3578.6
20°	4127.5	3988.5	3695.7	3450.6	3337.1	3329.8	3381.0	3450.6	3516.4	3615.2	3626.2
22.5°	4149.5	3981.1	3640.8	3366.4	3267.6	3289.6	3384.7	3472.5	3538.4	3644.5	3662.8
25°	4189.7	3992.1	3586.0	3282.2	3194.4	3256.6	3381.0	3487.2	3556.7	3666.5	3695.7
27.5°	4244.6	4017.7	3545.7	3205.4	3121.2	3205.4	3355.4	3483.5	3556.7	3662.8	3695.7
30°	4303.1	4047.0	3498.1	3121.2	3037.1	3132.2	3300.5	3443.3	3527.4	3626.2	3666.5
32.5°	4365.4	4079.9	3457.9	3029.8	2934.6	3033.4	3220.0	3381.0	3472.5	3564.0	3607.9
35°	4449.5	4138.5	3435.9	2956.6	2843.2	2931.0	3117.6	3300.5	3399.3	3483.5	3534.7
37.5°	4552.0	4211.7	3425.0	2883.4	2744.4	2817.5	3007.8	3201.7	3307.9	3377.4	3425.0
40°	4669.1	4303.1	3421.3	2813.9	2645.6	2700.4	2894.4	3088.3	3190.8	3245.7	3285.9
42.5°	4800.8	4405.6	3414.0	2744.4	2546.8	2590.7	2784.6	2974.9	3062.7	3110.3	3146.9
45°	4939.8	4508.1	3399.3	2660.2	2440.6	2491.9	2671.2	2839.5	2931.0	2971.2	3011.5
47.5°	5078.9	4610.5	3370.1	2565.1	2345.5	2393.1	2550.4	2696.8	2770.0	2806.6	2846.8
50°	5214.3	4702.0	3300.5	2455.3	2246.7	2290.6	2411.4	2510.2	2565.1	2594.3	2634.6
52.5°	5335.0	4764.2	3201.7	2327.2	2147.9	2169.9	2250.4	2334.5	2378.4	2382.1	2418.7
55°	5437.5	4797.1	3059.0	2195.5	2041.8	2045.5	2089.4	2155.2	2173.5	2158.9	2184.5
57.5°	5496.0	4778.8	2901.7	2060.1	1932.0	1917.4	1950.3	1983.3	1986.9	1950.3	1975.9
60°	5510.7	4694.7	2696.8	1924.7	1822.3	1782.0	1793.0	1785.7	1778.3	1763.7	1785.7
62.5°	5437.5	4515.4	2469.9	1793.0	1705.2	1643.0	1639.3	1635.6	1646.6	1650.3	1653.9
65°	5170.4	4178.7	2199.1	1657.6	1580.7	1496.6	1492.9	1536.8	1551.5	1529.5	1536.8
67.5°	4654.4	3662.8	1902.8	1500.2	1423.4	1350.2	1379.5	1405.1	1430.7	1423.4	1430.7
70°	3922.6	3007.8	1632.0	1324.6	1251.4	1211.2	1244.1	1266.1	1269.7	1262.4	1269.7
72.5°	3084.7	2349.2	1379.5	1145.3	1079.4	1061.2	1101.4	1119.7	1152.6	1167.3	1170.9
75°	2228.4	1734.4	1130.7	951.4	896.5	896.5	933.1	966.0	995.3	977.0	966.0
77.5°	1244.1	1035.5	812.3	655.0	666.0	717.2	731.8	768.4	797.7	794.0	786.7
80°	753.8	647.7	548.9	424.5	420.8	461.1	556.2	618.4	633.0	600.1	596.4
82.5°	391.5	340.3	292.7	237.8	263.5	307.4	322.0	387.9	428.1	413.5	431.8
85°	98.8	95.1	106.1	109.8	135.4	150.0	164.7	193.9	128.1	62.2	62.2
87.5°	29.3	29.3	36.6	36.6	47.6	58.5	54.9	54.9	29.3	3.7	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)