

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: P841097

Luminaire Tested: **ARCH4-130-730-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841097
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-130-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15230 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

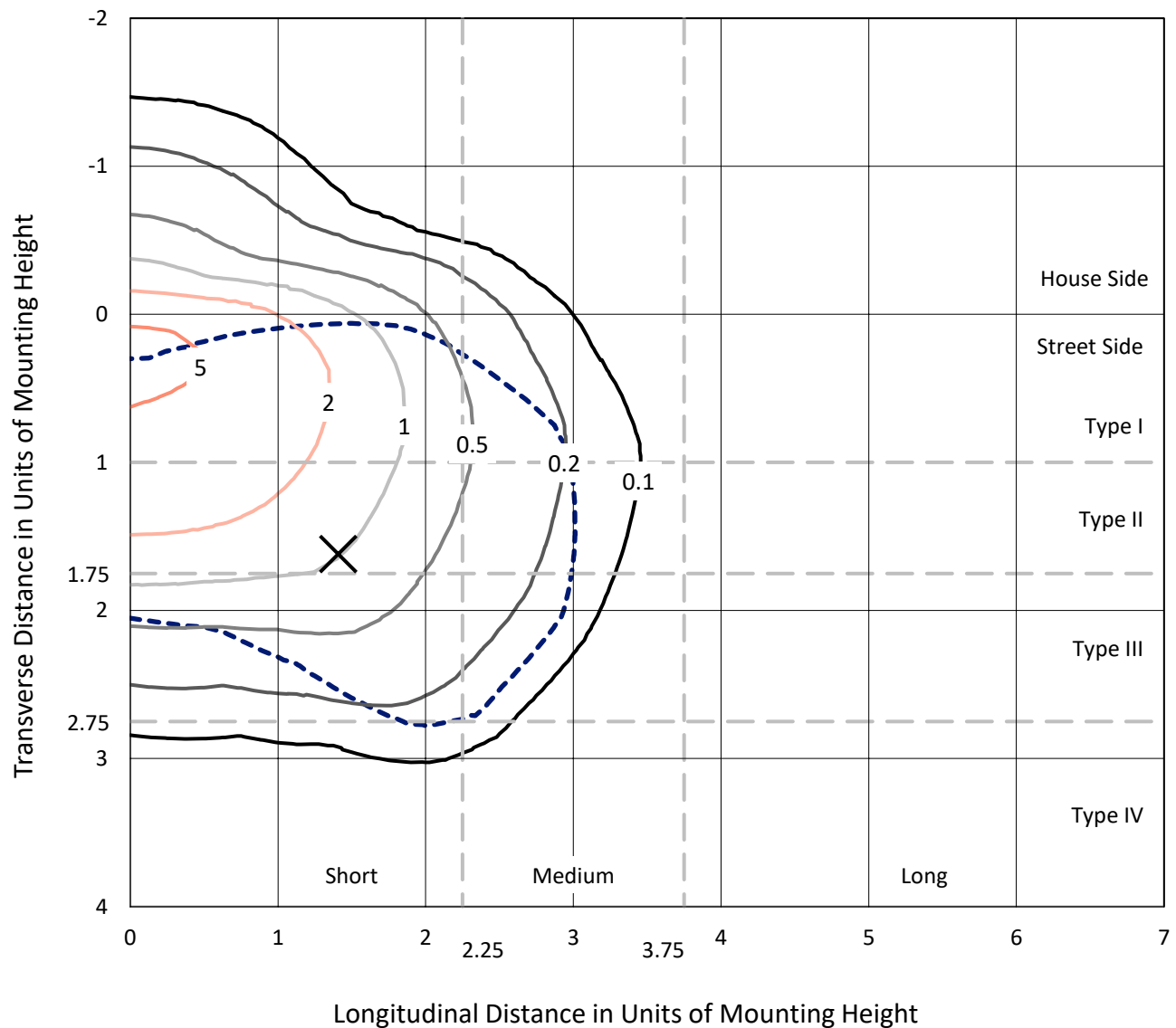
Input Watts (W): 132
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

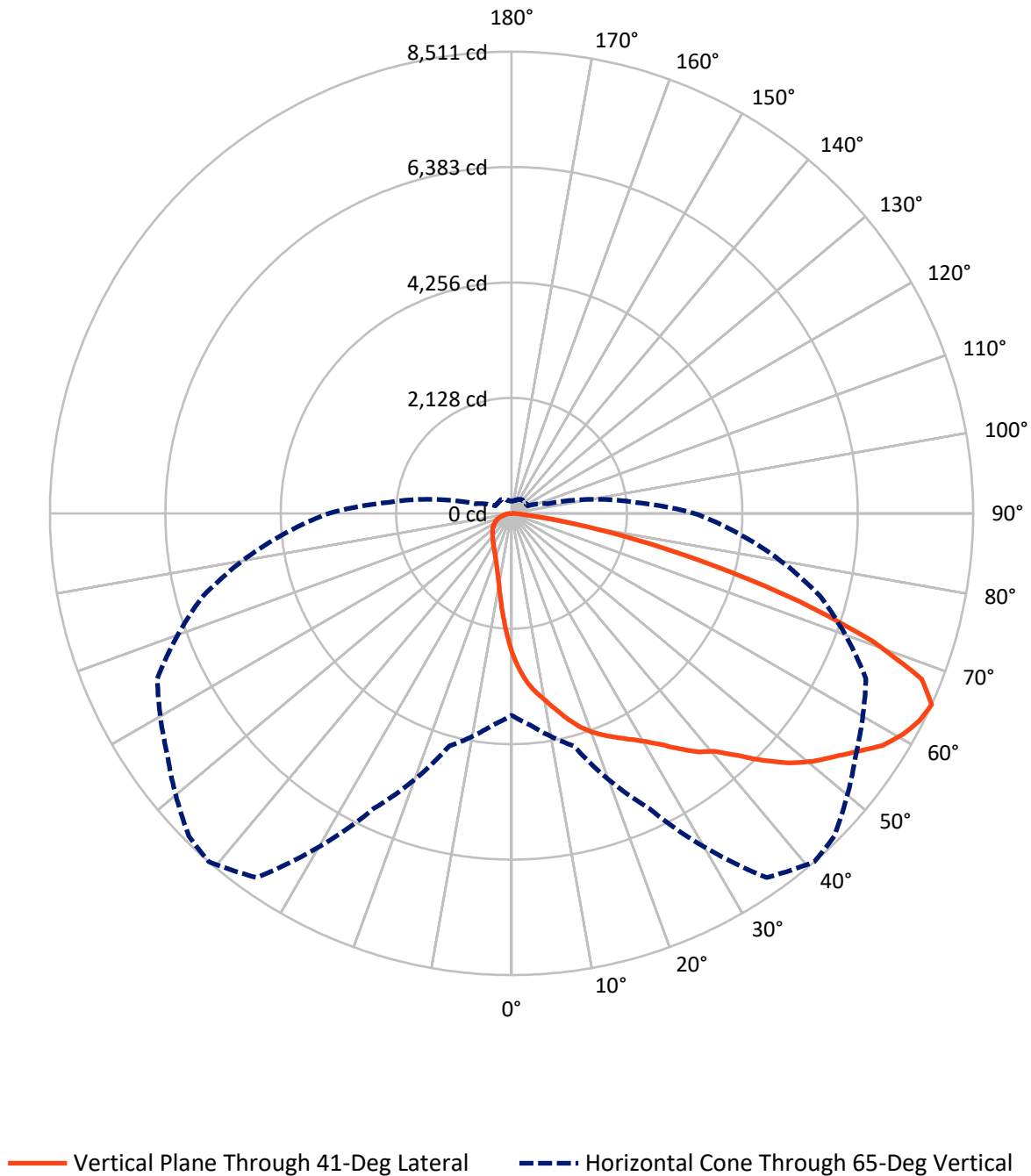
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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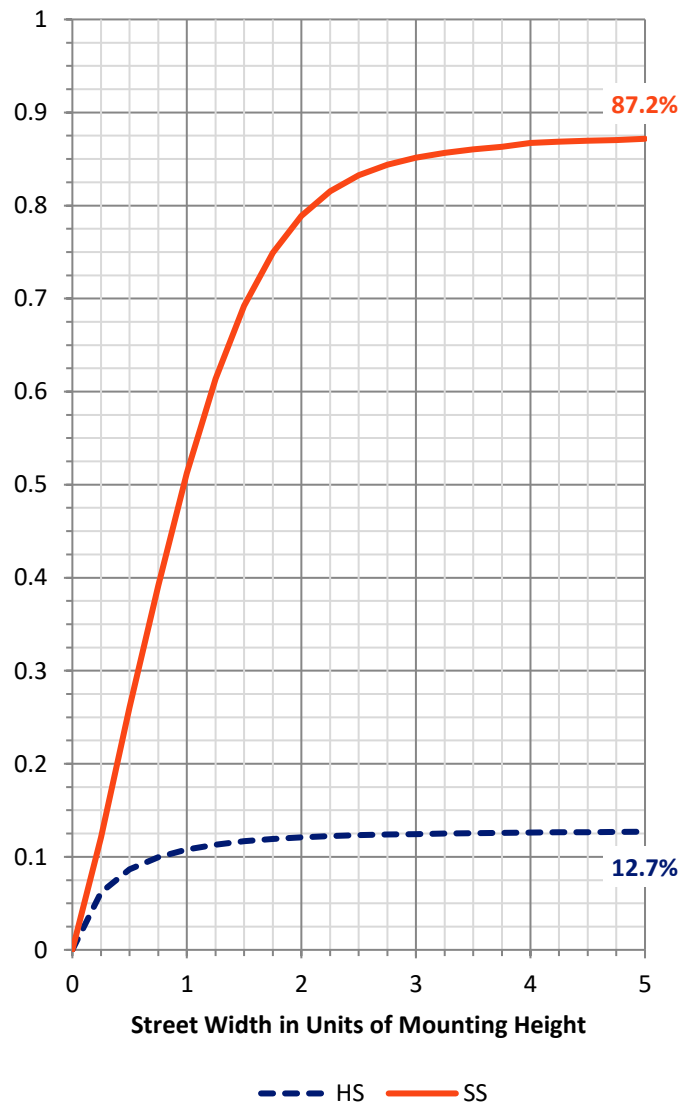
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1955.3	0.0	1955.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	13274.7	0.0	13274.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	15230.0	0.0	15230.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.8	1.6
10°-20°	725.0	4.8
20°-30°	1247.3	8.2
30°-40°	1891.8	12.4
40°-50°	2771.5	18.2
50°-60°	3499.8	23.0
60°-70°	3281.7	21.5
70°-80°	1462.6	9.6
80°-90°	108.3	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°	15230.0	100.0
0°-180°	15230.0	100.0

Coefficient of Utilization



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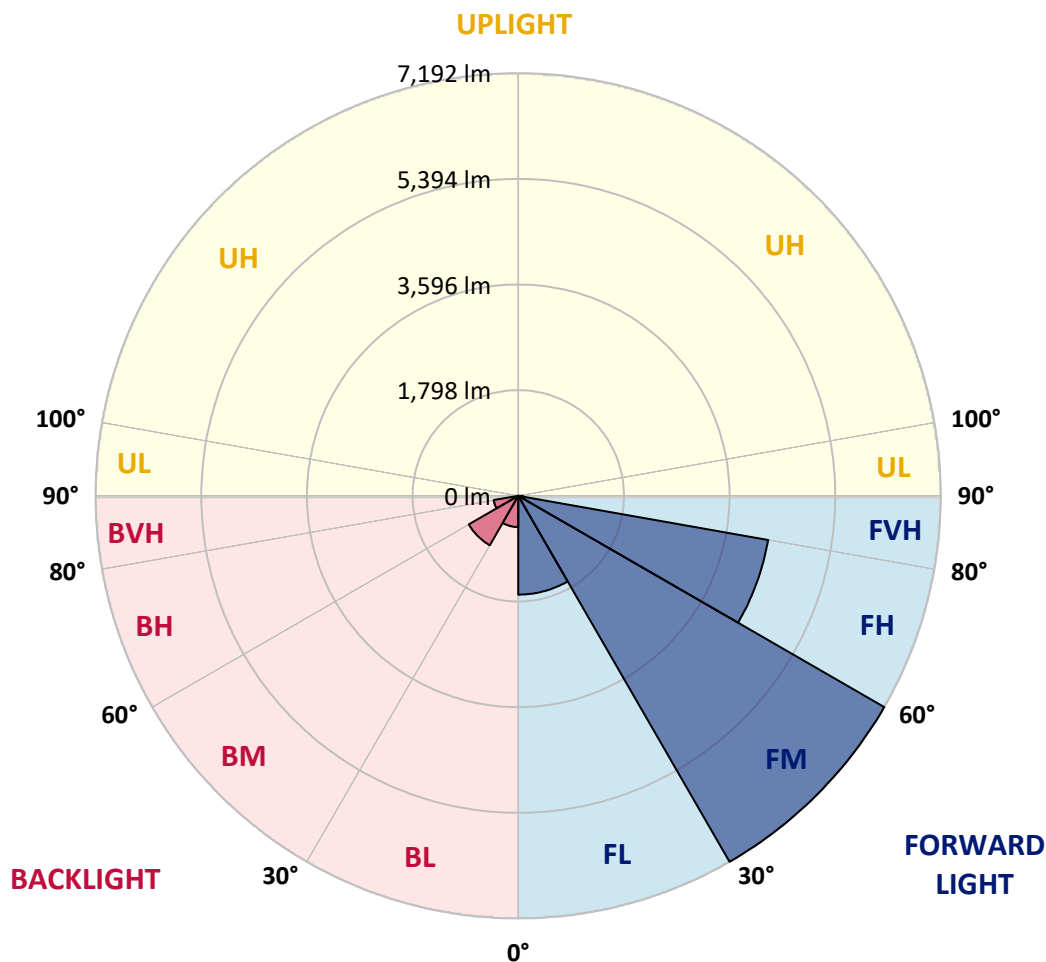
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1682.0	11.0			
FM	(30°-60°)	7192.2	47.2			
FH	(60°-80°)	4319.6	28.4			G2/5000
FVH	(80°-90°)	80.9	0.5			G1/100
BL	(0°-30°)	532.2	3.5	B2/1000		
BM	(30°-60°)	970.9	6.4	B1/1000		
BH	(60°-80°)	424.7	2.8	B1/500		G1/500
BVH	(80°-90°)	27.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2595.1	2595.1	2595.1	2595.1	2595.1	2595.1	2595.1	2595.1	2595.1	2595.1	2595.1
2.5°	2993.4	2983.7	2977.3	2942.0	2942.0	2893.8	2897.0	2852.1	2797.5	2710.7	2617.6
5°	3276.0	3263.2	3247.1	3211.8	3198.9	3150.7	3144.3	3080.1	2986.9	2836.0	2669.0
7.5°	3523.3	3510.5	3488.0	3436.6	3401.3	3343.5	3327.4	3243.9	3141.1	2954.8	2720.4
10°	3748.1	3738.5	3709.6	3645.4	3597.2	3526.5	3497.6	3385.2	3256.7	3051.2	2762.1
12.5°	3976.2	3963.3	3924.8	3870.2	3812.4	3728.9	3693.5	3549.0	3385.2	3157.2	2823.1
15°	4188.2	4168.9	4140.0	4082.2	4030.8	3950.5	3911.9	3741.7	3542.6	3276.0	2903.4
17.5°	4326.3	4310.2	4284.5	4252.4	4210.6	4149.6	4111.1	3944.1	3700.0	3391.6	2986.9
20°	4409.8	4403.3	4393.7	4374.4	4355.2	4313.4	4284.5	4127.1	3870.2	3504.0	3067.2
22.5°	4474.0	4467.6	4464.4	4464.4	4467.6	4451.5	4432.2	4297.4	4034.0	3622.9	3141.1
25°	4573.6	4570.4	4563.9	4557.5	4580.0	4583.2	4576.8	4483.6	4239.5	3780.3	3234.3
27.5°	4711.7	4702.0	4689.2	4682.8	4705.2	4721.3	4734.2	4669.9	4457.9	3940.8	3340.2
30°	4923.6	4894.7	4862.6	4840.1	4856.2	4881.9	4910.8	4872.3	4682.8	4140.0	3449.4
32.5°	5174.2	5138.8	5065.0	5023.2	5065.0	5084.2	5106.7	5087.4	4917.2	4355.2	3558.6
35°	5479.3	5437.5	5360.4	5299.4	5373.3	5331.5	5321.9	5302.6	5138.8	4567.1	3680.7
37.5°	5986.7	5925.7	5803.7	5668.8	5668.8	5578.8	5543.5	5485.7	5338.0	4756.6	3799.5
40°	6574.5	6494.2	6336.8	6137.7	5954.6	5768.3	5745.9	5704.1	5572.4	4975.0	3934.4
42.5°	7220.1	7065.9	6847.5	6606.6	6311.1	6099.2	6047.8	5928.9	5800.5	5196.6	4069.3
45°	7936.3	7615.1	7297.1	7175.1	6686.9	6494.2	6397.9	6182.7	6038.1	5427.9	4210.6
47.5°	8051.9	7801.4	7589.4	7570.1	7037.0	6876.4	6767.2	6458.9	6295.1	5675.2	4358.4
50°	7987.7	7836.7	7859.2	7782.1	7293.9	7187.9	7104.4	6754.4	6548.8	5912.9	4493.3
52.5°	7717.9	7801.4	7929.9	7788.5	7538.0	7451.3	7409.6	7072.3	6786.5	6131.3	4615.3
55°	7396.7	7454.5	7730.7	7904.2	7820.7	7743.6	7705.0	7441.7	7020.9	6314.3	4727.7
57.5°	6927.8	6902.1	7207.2	7884.9	8116.1	8071.2	8029.4	7804.6	7239.3	6446.0	4798.4
60°	6224.4	6169.8	6555.2	7499.5	8212.5	8283.2	8263.9	8045.5	7406.3	6442.8	4769.5
62.5°	5007.2	5142.0	5675.2	6870.0	8254.3	8434.1	8398.8	8064.8	7460.9	6256.5	4586.4
65°	3722.4	3915.2	4438.7	6002.8	8196.4	8511.2	8414.8	7750.0	7207.2	5887.2	4184.9
67.5°	2681.8	2852.1	3234.3	4939.7	7640.8	8157.9	8045.5	7236.1	6622.7	5363.7	3629.3
70°	1833.9	1956.0	2216.1	3597.2	6523.1	7053.1	6982.4	6468.5	5700.9	4740.6	2948.4
72.5°	1294.3	1345.7	1512.7	2373.5	4955.8	5533.9	5450.4	5321.9	4580.0	3940.8	2293.2
75°	970.0	1002.1	1092.0	1535.2	3343.5	3834.9	3757.8	3831.6	3420.5	2983.7	1670.1
77.5°	366.1	398.3	619.9	979.6	1978.5	2354.2	2277.1	2322.1	1901.4	1506.3	831.8
80°	99.6	106.0	205.6	465.7	899.3	1172.3	1066.3	915.4	706.6	693.7	440.0
82.5°	41.8	48.2	93.1	250.5	321.2	321.2	269.8	334.0	269.8	324.4	212.0
85°	16.1	19.3	22.5	64.2	41.8	45.0	48.2	64.2	54.6	67.4	48.2
87.5°	0.0	0.0	0.0	3.2	3.2	6.4	3.2	6.4	9.6	9.6	9.6
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°	2595.1	2595.1	2595.1	2595.1	2595.1	2595.1	2595.1	2595.1	2595.1	2595.1	2595.1
2.5°	2579.1	2543.7	2492.3	2408.8	2322.1	2273.9	2212.9	2203.3	2139.0	2132.6	2106.9
5°	2595.1	2521.2	2389.6	2229.0	2071.6	1949.5	1859.6	1811.4	1718.3	1718.3	1692.6
7.5°	2608.0	2492.3	2280.4	2042.7	1827.5	1663.7	1541.7	1490.3	1406.8	1400.3	1381.1
10°	2611.2	2457.0	2161.5	1853.2	1589.8	1422.8	1304.0	1246.2	1172.3	1165.9	1153.0
12.5°	2636.9	2437.7	2055.5	1689.4	1419.6	1239.7	1124.1	1075.9	1018.1	1011.7	998.9
15°	2678.6	2437.7	1965.6	1551.3	1268.7	1101.6	1002.1	957.1	915.4	908.9	902.5
17.5°	2720.4	2431.3	1875.7	1422.8	1143.4	992.4	905.7	870.4	838.3	835.1	828.6
20°	2758.9	2428.1	1785.7	1313.6	1047.0	902.5	835.1	802.9	777.2	777.2	774.0
22.5°	2797.5	2421.7	1699.0	1210.8	963.5	835.1	777.2	741.9	722.6	722.6	719.4
25°	2855.3	2421.7	1618.7	1124.1	896.1	783.7	725.9	700.2	684.1	680.9	680.9
27.5°	2922.7	2440.9	1548.1	1047.0	838.3	732.3	687.3	661.6	642.4	635.9	639.1
30°	2996.6	2457.0	1483.8	979.6	783.7	693.7	645.6	619.9	600.6	594.2	597.4
32.5°	3070.5	2476.3	1426.0	918.6	729.1	658.4	610.2	581.3	562.1	558.8	558.8
35°	3150.7	2495.5	1368.2	867.2	684.1	623.1	578.1	546.0	533.2	526.7	529.9
37.5°	3231.0	2527.7	1313.6	819.0	652.0	591.0	549.2	517.1	507.5	504.2	504.2
40°	3327.4	2575.8	1291.1	786.9	623.1	562.1	526.7	494.6	485.0	485.0	485.0
42.5°	3407.7	2614.4	1271.9	751.6	600.6	536.4	504.2	478.6	472.1	468.9	472.1
45°	3488.0	2649.7	1246.2	719.4	571.7	510.7	485.0	459.3	452.9	452.9	452.9
47.5°	3568.3	2669.0	1210.8	687.3	546.0	488.2	465.7	443.2	436.8	436.8	436.8
50°	3632.5	2685.0	1159.4	652.0	517.1	468.9	446.4	424.0	417.5	417.5	417.5
52.5°	3696.8	2688.3	1104.8	610.2	488.2	446.4	427.2	404.7	398.3	395.0	395.0
55°	3754.6	2685.0	1040.6	562.1	456.1	420.7	404.7	385.4	372.6	359.7	366.1
57.5°	3796.3	2681.8	966.7	513.9	424.0	395.0	388.6	362.9	337.2	305.1	311.5
60°	3780.3	2646.5	886.4	452.9	388.6	369.4	369.4	334.0	289.1	273.0	276.2
62.5°	3677.5	2546.9	802.9	388.6	353.3	343.7	340.4	301.9	266.6	250.5	253.7
65°	3369.1	2296.4	680.9	330.8	318.0	314.8	314.8	279.4	247.3	228.0	231.2
67.5°	2900.2	1927.1	555.6	279.4	282.6	289.1	289.1	256.9	224.8	205.6	208.8
70°	2325.3	1506.3	443.2	240.9	244.1	253.7	260.2	231.2	202.3	183.1	183.1
72.5°	1750.4	1143.4	356.5	202.3	218.4	218.4	228.0	205.6	176.6	157.4	160.6
75°	1268.7	819.0	282.6	170.2	189.5	186.3	186.3	173.4	151.0	138.1	138.1
77.5°	600.6	430.4	224.8	122.0	147.7	144.5	147.7	138.1	128.5	115.6	118.8
80°	295.5	212.0	144.5	86.7	102.8	106.0	115.6	109.2	106.0	96.4	96.4
82.5°	141.3	83.5	67.4	61.0	70.7	73.9	80.3	80.3	83.5	77.1	77.1
85°	38.5	22.5	28.9	38.5	45.0	48.2	54.6	57.8	57.8	54.6	57.8
87.5°	9.6	9.6	12.8	19.3	22.5	25.7	28.9	28.9	12.8	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)