

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: P842731

Luminaire Tested: **ARCH4-90-722-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842731
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-90-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 765mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9799 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

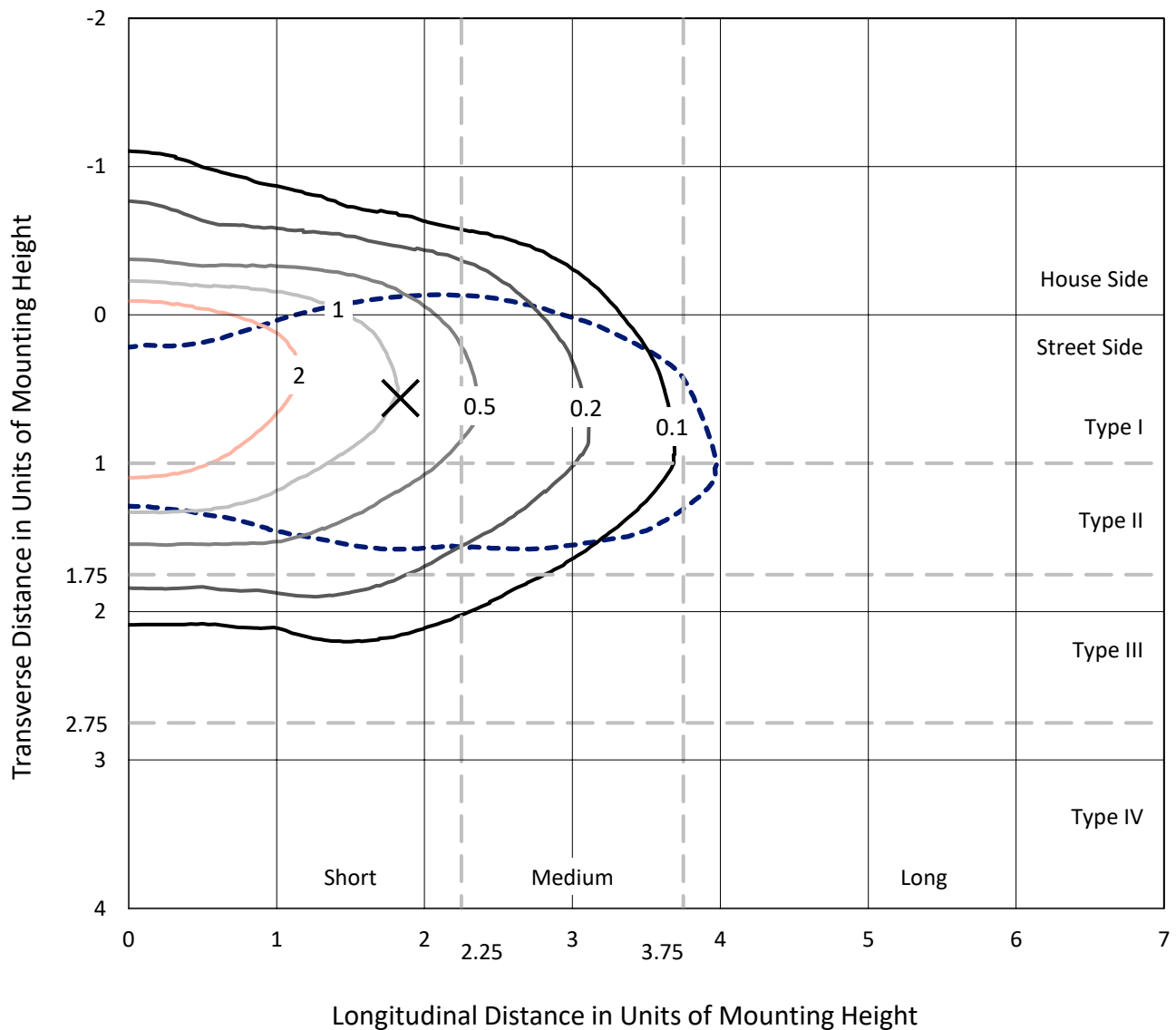
Input Watts (W): 93.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

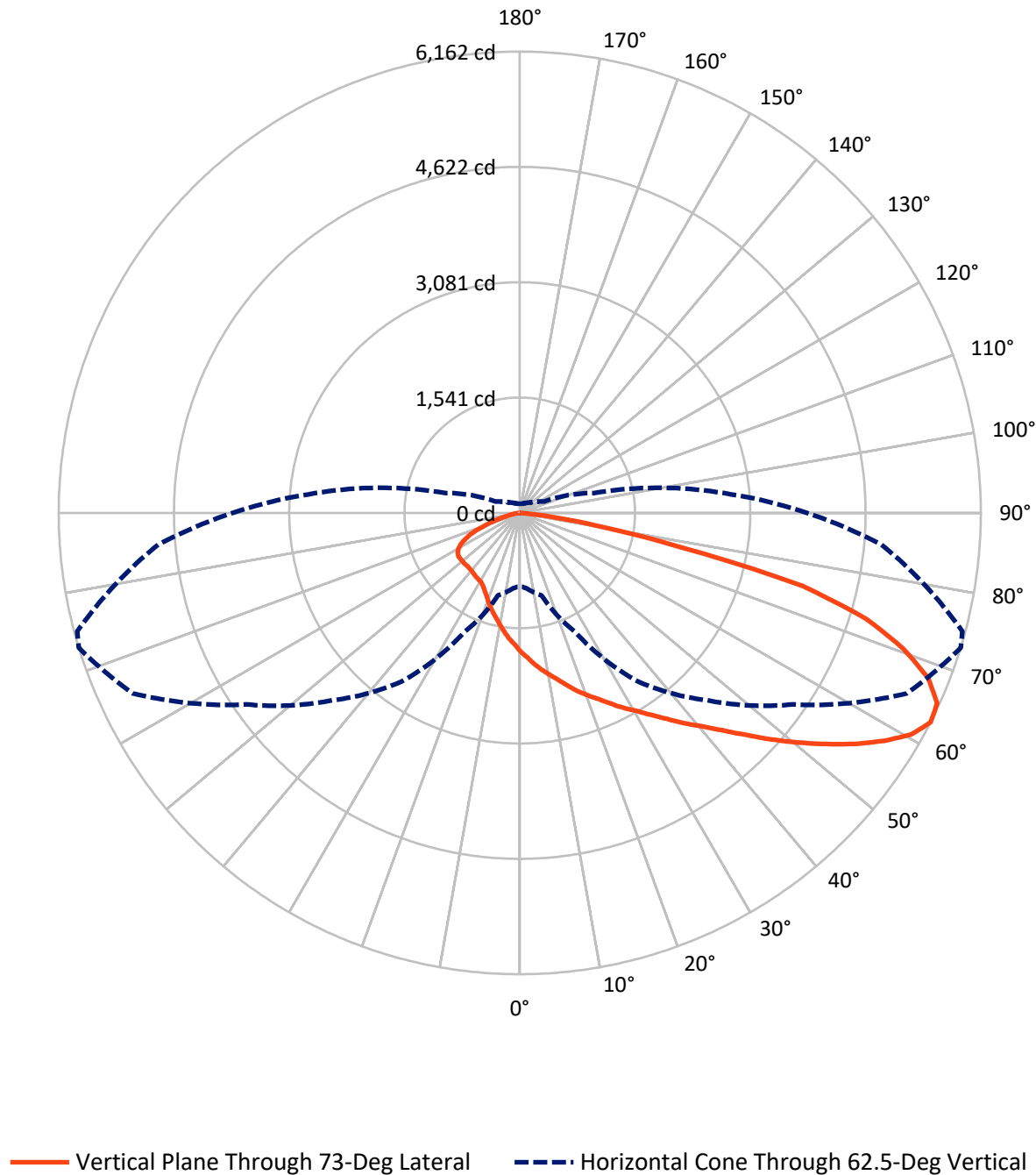
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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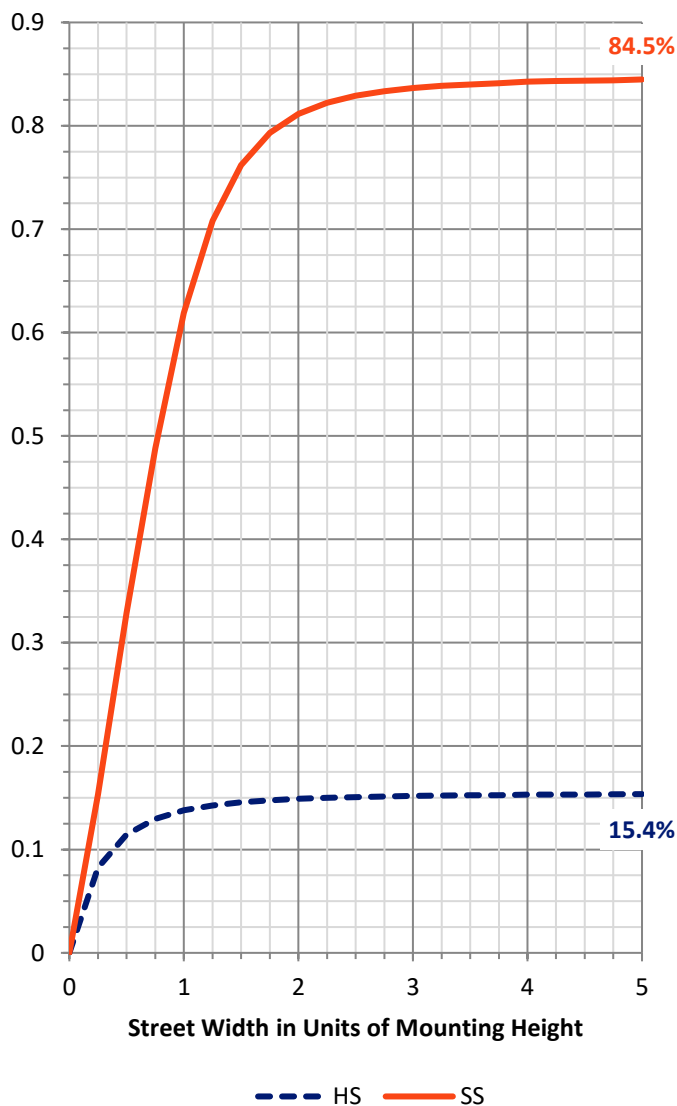
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1519.0	0.0	1519.0
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	8280.0	0.0	8280.0
	% Fixture	84.5	0.0	84.5
Total	Lumens	9799.0	0.0	9799.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.2	1.8
10°-20°	540.9	5.5
20°-30°	900.3	9.2
30°-40°	1358.5	13.9
40°-50°	1898.8	19.4
50°-60°	2097.3	21.4
60°-70°	1827.0	18.6
70°-80°	922.9	9.4
80°-90°	74.1	0.8
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°	9799.0	100.0
0°-180°	9799.0	100.0

Coefficient of Utilization



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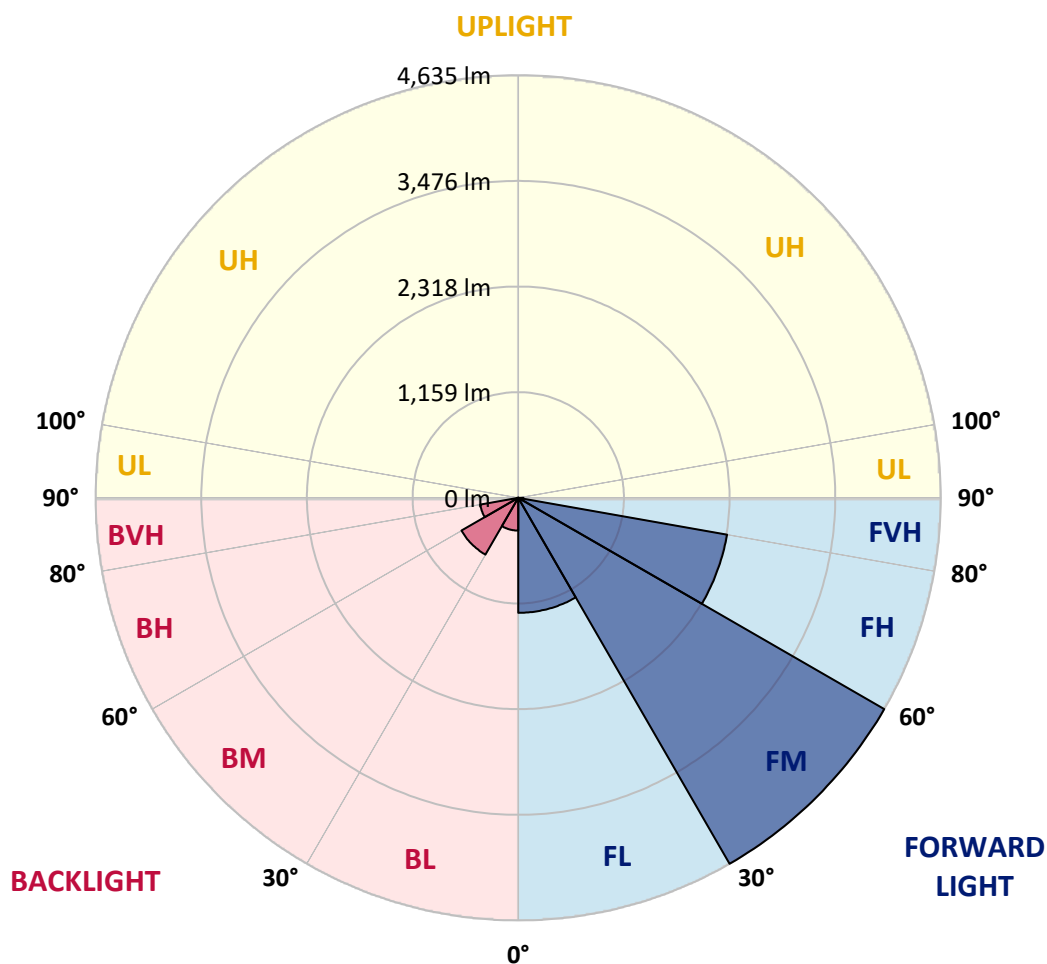
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1261.4	12.9			
FM	(30°-60°)	4635.3	47.3			
FH	(60°-80°)	2326.0	23.7			G2/5000
FVH	(80°-90°)	57.3	0.6			G1/100
BL	(0°-30°)	359.0	3.7	B1/500		
BM	(30°-60°)	719.2	7.3	B1/1000		
BH	(60°-80°)	424.0	4.3	B1/500		G1/500
BVH	(80°-90°)	16.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1855.5	1855.5	1855.5	1855.5	1855.5	1855.5	1855.5	1855.5	1855.5	1855.5	1855.5
2.5°	2111.7	2135.2	2122.4	2130.9	2088.2	2060.4	2028.4	1966.5	1932.3	1928.1	1887.5
5°	2421.3	2446.9	2425.6	2419.1	2344.4	2280.4	2207.8	2098.9	2026.3	2013.5	1923.8
7.5°	2730.9	2754.4	2728.7	2709.5	2609.2	2496.0	2389.3	2229.1	2116.0	2094.6	1953.7
10°	2948.7	2970.0	2950.8	2931.6	2827.0	2711.7	2560.1	2350.8	2197.1	2162.9	1972.9
12.5°	3113.1	3125.9	3117.3	3100.3	3002.0	2878.2	2733.0	2487.5	2288.9	2246.2	2002.8
15°	3247.6	3268.9	3258.3	3245.5	3151.5	3027.7	2888.9	2630.5	2395.7	2342.3	2047.6
17.5°	3337.3	3352.2	3354.3	3354.3	3271.1	3149.4	3014.9	2760.8	2502.4	2434.1	2090.3
20°	3377.8	3394.9	3405.6	3422.7	3354.3	3249.7	3113.1	2871.8	2602.8	2525.9	2130.9
22.5°	3397.1	3412.0	3439.8	3478.2	3422.7	3335.1	3209.2	2974.3	2703.1	2622.0	2177.9
25°	3412.0	3431.2	3471.8	3544.4	3505.9	3431.2	3322.3	3091.7	2822.7	2739.4	2246.2
27.5°	3452.6	3476.1	3514.5	3602.0	3555.1	3518.8	3441.9	3217.7	2948.7	2863.3	2329.5
30°	3593.5	3612.7	3610.6	3666.1	3608.4	3597.8	3544.4	3339.4	3070.4	2985.0	2427.7
32.5°	3849.7	3868.9	3822.0	3800.6	3674.6	3676.8	3655.4	3469.6	3215.6	3128.0	2540.9
35°	4125.1	4146.5	4084.6	4048.3	3836.9	3775.0	3785.7	3631.9	3377.8	3290.3	2681.8
37.5°	4370.7	4396.3	4342.9	4289.6	4076.0	3933.0	3930.8	3813.4	3563.6	3473.9	2837.6
40°	4505.2	4535.1	4567.1	4537.2	4313.0	4155.0	4086.7	3999.2	3747.2	3655.4	3006.3
42.5°	4569.3	4652.5	4710.2	4691.0	4507.3	4347.2	4266.1	4193.5	3971.4	3881.7	3207.0
45°	4389.9	4392.0	4513.7	4618.4	4584.2	4477.4	4462.5	4411.3	4227.6	4142.2	3433.4
47.5°	4165.7	4148.6	4234.0	4419.8	4515.9	4543.6	4631.2	4652.5	4520.2	4434.7	3663.9
50°	3627.7	3638.3	3915.9	4182.8	4370.7	4550.0	4750.7	4900.2	4821.2	4740.1	3907.4
52.5°	2950.8	2976.4	3294.6	3881.7	4178.5	4486.0	4821.2	5147.9	5128.7	5051.8	4150.8
55°	2365.8	2406.3	2743.7	3380.0	3933.0	4342.9	4851.1	5374.2	5446.8	5376.4	4389.9
57.5°	1808.5	1851.2	2135.2	2788.5	3619.1	4110.2	4829.8	5572.8	5743.6	5698.8	4609.8
60°	1362.2	1404.9	1586.4	2261.1	3226.2	3849.7	4723.0	5703.0	6010.5	5963.5	4770.0
62.5°	975.8	1009.9	1144.5	1759.4	2748.0	3540.1	4460.4	5705.2	6162.1	6123.7	4846.8
65°	702.5	702.5	811.4	1255.5	2299.6	3168.6	4063.2	5442.5	6130.1	6119.4	4793.5
67.5°	506.0	510.3	597.8	877.6	1834.1	2718.1	3548.7	4974.9	5882.4	5935.8	4601.3
70°	358.7	369.4	410.0	612.8	1385.7	2145.8	2997.8	4362.1	5436.1	5530.1	4229.8
72.5°	277.6	284.0	311.7	427.0	1012.1	1595.0	2389.3	3678.9	4840.4	4947.2	3723.7
75°	213.5	219.9	241.3	313.9	726.0	1118.8	1697.5	2854.7	3903.1	4093.1	2991.4
77.5°	155.9	164.4	179.4	228.5	422.8	711.0	1029.2	1605.6	2154.4	2244.1	1567.2
80°	72.6	83.3	104.6	147.3	228.5	335.2	365.1	619.2	1035.6	1082.5	849.8
82.5°	40.6	51.2	59.8	89.7	115.3	119.6	123.8	155.9	390.7	431.3	356.6
85°	19.2	25.6	27.8	38.4	38.4	34.2	40.6	29.9	64.1	76.9	74.7
87.5°	0.0	2.1	4.3	10.7	8.5	6.4	6.4	6.4	6.4	8.5	6.4
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°	1855.5	1855.5	1855.5	1855.5	1855.5	1855.5	1855.5	1855.5	1855.5	1855.5	1855.5
2.5°	1868.3	1840.5	1776.5	1720.9	1684.6	1652.6	1609.9	1590.7	1556.5	1562.9	1543.7
5°	1878.9	1827.7	1714.5	1609.9	1533.1	1464.7	1390.0	1347.3	1300.3	1296.0	1281.1
7.5°	1885.4	1806.4	1644.1	1496.8	1379.3	1274.7	1174.3	1118.8	1061.2	1048.4	1035.6
10°	1878.9	1774.3	1571.5	1379.3	1223.5	1093.2	980.0	909.6	849.8	834.9	822.0
12.5°	1885.4	1757.2	1503.2	1270.4	1084.7	937.3	809.2	736.6	681.1	666.2	657.6
15°	1900.3	1746.6	1445.5	1172.2	960.8	796.4	670.4	608.5	563.7	548.7	544.5
17.5°	1913.1	1735.9	1383.6	1076.1	837.0	672.6	563.7	512.4	474.0	459.1	454.8
20°	1930.2	1720.9	1321.7	984.3	728.1	574.4	478.3	433.4	403.5	392.9	390.7
22.5°	1945.1	1710.3	1264.0	892.5	627.7	495.4	414.2	377.9	356.6	345.9	345.9
25°	1983.6	1714.5	1214.9	807.1	553.0	433.4	365.1	337.4	320.3	313.9	313.9
27.5°	2028.4	1731.6	1176.5	734.5	489.0	386.5	331.0	307.5	298.9	290.4	292.5
30°	2092.5	1765.8	1150.9	674.7	442.0	350.2	303.2	286.1	277.6	275.4	275.4
32.5°	2173.6	1821.3	1148.7	636.3	407.8	322.4	284.0	269.0	264.8	262.6	262.6
35°	2269.7	1870.4	1135.9	619.2	386.5	303.2	269.0	258.4	256.2	256.2	256.2
37.5°	2385.0	1951.5	1127.4	595.7	375.8	292.5	258.4	249.8	249.8	249.8	249.8
40°	2504.6	2017.7	1114.6	574.4	371.5	286.1	251.9	241.3	241.3	241.3	241.3
42.5°	2647.6	2113.8	1110.3	563.7	365.1	281.8	243.4	230.6	232.7	232.7	234.9
45°	2820.6	2222.7	1108.2	553.0	363.0	277.6	234.9	219.9	222.1	219.9	219.9
47.5°	2995.6	2348.7	1114.6	546.6	360.8	273.3	228.5	209.2	209.2	207.1	207.1
50°	3179.3	2464.0	1118.8	540.2	356.6	264.8	217.8	200.7	196.4	192.2	194.3
52.5°	3352.2	2570.7	1121.0	529.5	343.8	251.9	209.2	190.0	183.6	177.2	179.4
55°	3525.2	2673.2	1125.2	516.7	326.7	239.1	198.6	179.4	170.8	162.3	162.3
57.5°	3681.0	2762.9	1114.6	484.7	307.5	226.3	187.9	166.5	153.7	145.2	145.2
60°	3787.8	2827.0	1082.5	437.7	281.8	211.4	177.2	153.7	138.8	132.4	132.4
62.5°	3839.0	2837.6	1024.9	360.8	249.8	196.4	164.4	140.9	128.1	123.8	123.8
65°	3789.9	2790.7	935.2	271.2	215.7	179.4	151.6	130.2	117.4	106.8	106.8
67.5°	3619.1	2658.3	811.4	205.0	183.6	162.3	138.8	119.6	104.6	96.1	96.1
70°	3275.3	2382.8	627.7	164.4	155.9	140.9	126.0	106.8	93.9	83.3	83.3
72.5°	2824.8	2019.9	442.0	132.4	132.4	119.6	106.8	93.9	81.1	72.6	72.6
75°	2167.2	1494.6	296.8	106.8	108.9	100.4	87.5	76.9	68.3	61.9	61.9
77.5°	1182.9	738.8	181.5	79.0	81.1	76.9	68.3	61.9	57.6	51.2	51.2
80°	574.4	324.5	104.6	55.5	57.6	55.5	51.2	44.8	44.8	40.6	40.6
82.5°	241.3	121.7	55.5	38.4	38.4	34.2	32.0	32.0	32.0	29.9	29.9
85°	59.8	23.5	23.5	21.4	21.4	21.4	19.2	19.2	19.2	14.9	17.1
87.5°	8.5	8.5	8.5	8.5	8.5	8.5	6.4	2.1	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)