

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: P836821

Luminaire Tested: **ARCH3-80-727-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836821
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-80-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 650mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

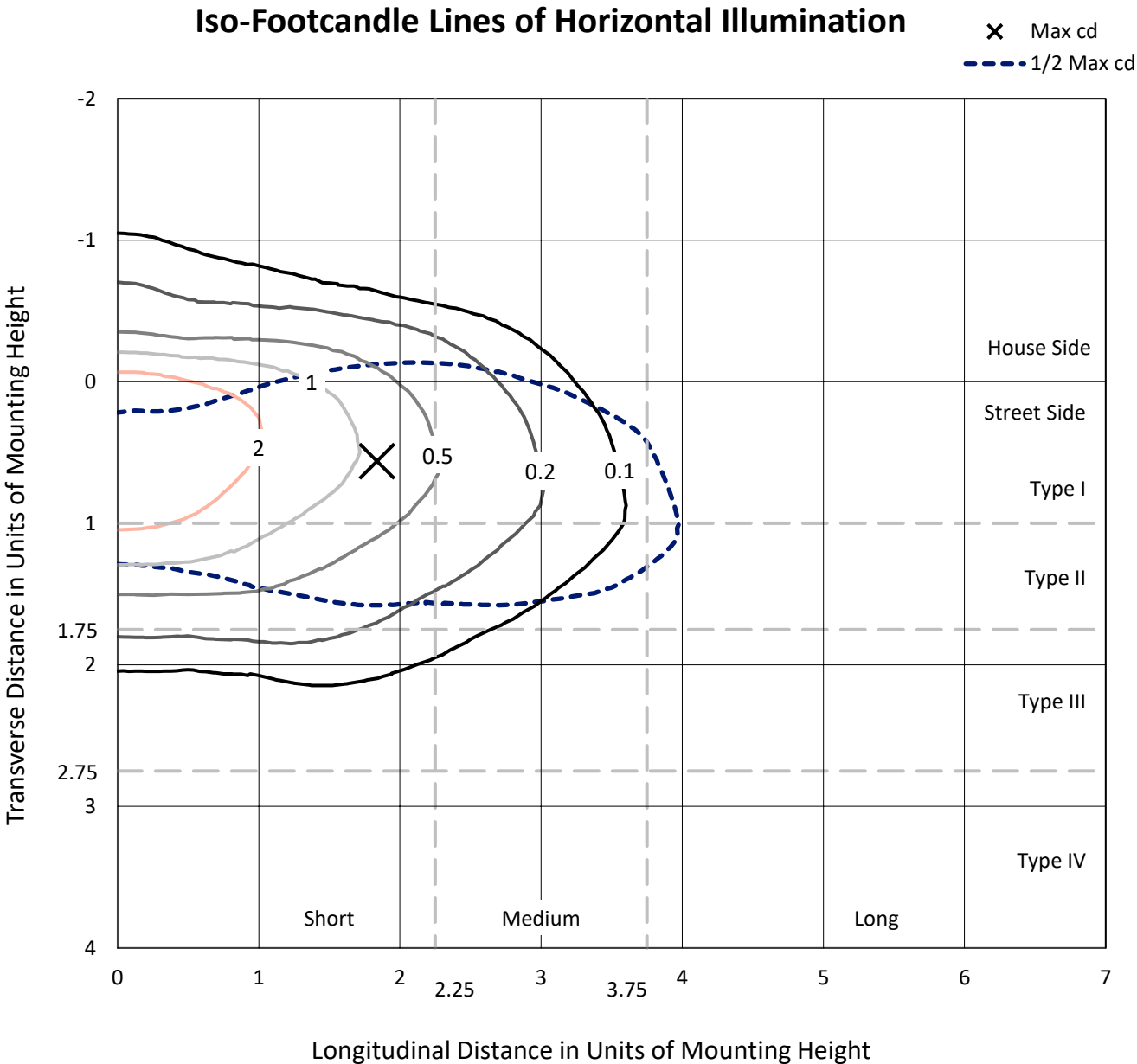
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8699 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 81.9
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



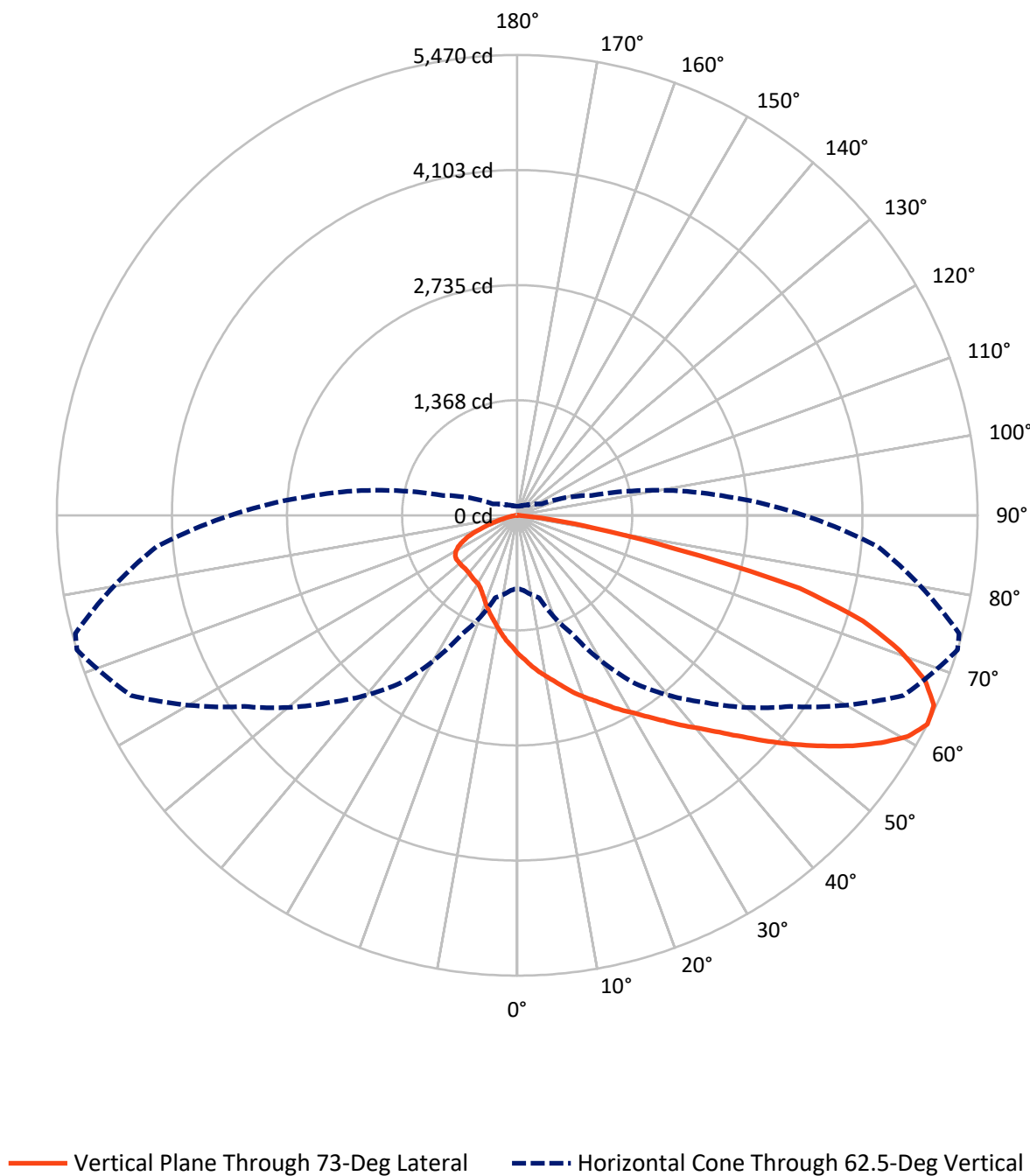
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Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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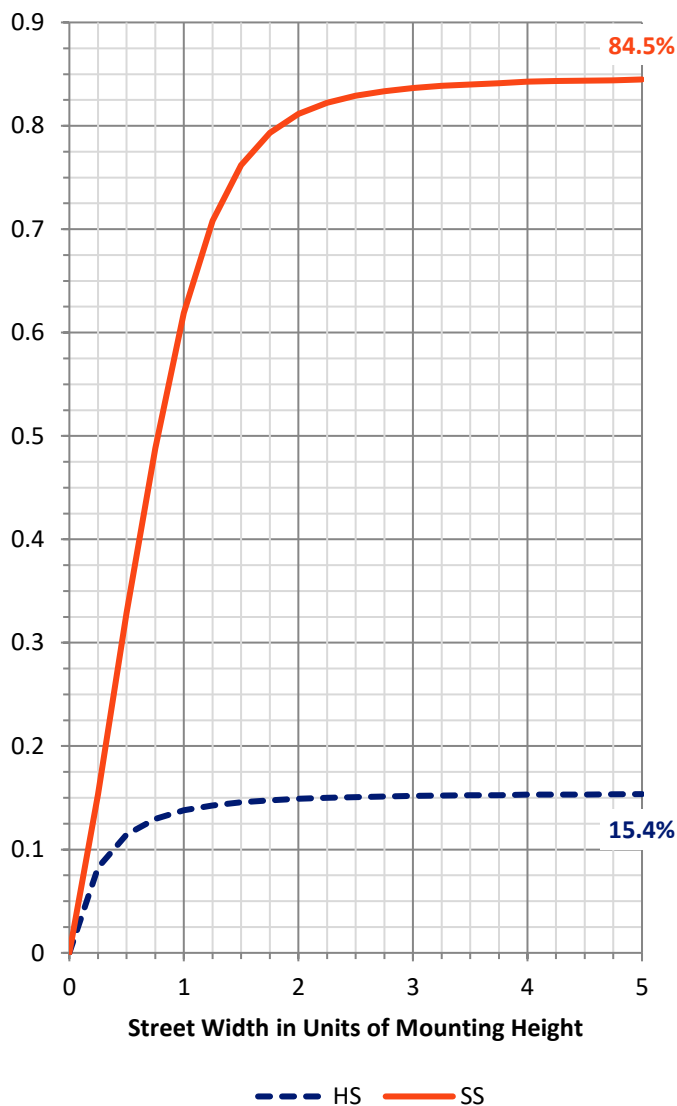
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1348.5	0.0	1348.5
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	7350.5	0.0	7350.5
	% Fixture	84.5	0.0	84.5
Total	Lumens	8699.0	0.0	8699.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.1	1.8
10°-20°	480.2	5.5
20°-30°	799.3	9.2
30°-40°	1206.0	13.9
40°-50°	1685.6	19.4
50°-60°	1861.9	21.4
60°-70°	1621.9	18.6
70°-80°	819.3	9.4
80°-90°	65.8	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°	8699.0	100.0
0°-180°	8699.0	100.0

Coefficient of Utilization



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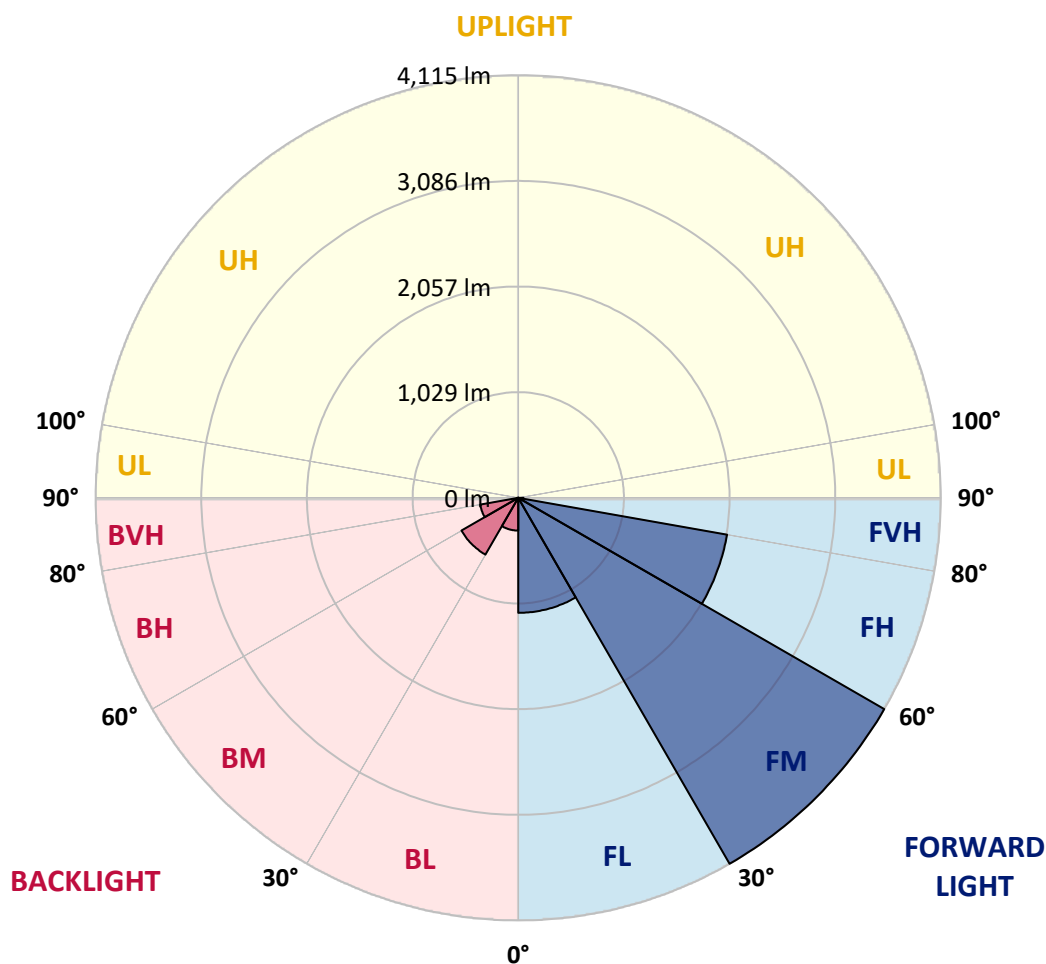
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1119.8	12.9			
FM	(30°-60°)	4114.9	47.3			
FH	(60°-80°)	2064.9	23.7			G2/5000
FVH	(80°-90°)	50.9	0.6			G1/100
BL	(0°-30°)	318.7	3.7	B1/500		
BM	(30°-60°)	638.5	7.3	B1/1000		
BH	(60°-80°)	376.4	4.3	B1/500		G1/500
BVH	(80°-90°)	14.9	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°	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2
2.5°	1874.6	1895.5	1884.1	1891.7	1853.8	1829.1	1800.7	1745.7	1715.4	1711.6	1675.6
5°	2149.5	2172.2	2153.3	2147.6	2081.2	2024.4	1959.9	1863.3	1798.8	1787.4	1707.8
7.5°	2424.3	2445.2	2422.4	2405.4	2316.3	2215.8	2121.0	1978.9	1878.4	1859.5	1734.4
10°	2617.7	2636.6	2619.6	2602.5	2509.6	2407.3	2272.7	2086.9	1950.5	1920.1	1751.4
12.5°	2763.6	2775.0	2767.4	2752.2	2665.0	2555.1	2426.2	2208.2	2032.0	1994.0	1778.0
15°	2883.0	2902.0	2892.5	2881.1	2797.7	2687.8	2564.6	2335.2	2126.7	2079.3	1817.8
17.5°	2962.6	2975.9	2977.8	2977.8	2903.9	2795.8	2676.4	2450.9	2221.5	2160.8	1855.7
20°	2998.7	3013.8	3023.3	3038.5	2977.8	2884.9	2763.6	2549.4	2310.6	2242.4	1891.7
22.5°	3015.7	3029.0	3053.6	3087.7	3038.5	2960.7	2848.9	2640.4	2399.7	2327.7	1933.4
25°	3029.0	3046.0	3082.1	3146.5	3112.4	3046.0	2949.4	2744.7	2505.8	2431.9	1994.0
27.5°	3065.0	3085.8	3120.0	3197.7	3156.0	3123.8	3055.5	2856.5	2617.7	2541.8	2068.0
30°	3190.1	3207.2	3205.3	3254.5	3203.4	3193.9	3146.5	2964.5	2725.7	2649.9	2155.2
32.5°	3417.6	3434.6	3392.9	3374.0	3262.1	3264.0	3245.1	3080.2	2854.6	2776.9	2255.6
35°	3662.1	3681.0	3626.1	3593.8	3406.2	3351.2	3360.7	3224.2	2998.7	2920.9	2380.7
37.5°	3880.1	3902.8	3855.4	3808.0	3618.5	3491.5	3489.6	3385.3	3163.6	3083.9	2519.1
40°	3999.5	4026.0	4054.4	4027.9	3828.9	3688.6	3628.0	3550.2	3326.6	3245.1	2668.8
42.5°	4056.3	4130.3	4181.4	4164.4	4001.4	3859.2	3787.2	3722.7	3525.6	3446.0	2847.0
45°	3897.1	3899.0	4007.0	4099.9	4069.6	3974.8	3961.6	3916.1	3753.1	3677.2	3047.9
47.5°	3698.1	3682.9	3758.7	3923.6	4008.9	4033.6	4111.3	4130.3	4012.7	3936.9	3252.6
50°	3220.4	3229.9	3476.3	3713.2	3880.1	4039.3	4217.4	4350.1	4280.0	4208.0	3468.7
52.5°	2619.6	2642.3	2924.7	3446.0	3709.5	3982.4	4280.0	4570.0	4552.9	4484.7	3684.8
55°	2100.2	2136.2	2435.7	3000.5	3491.5	3855.4	4306.5	4770.9	4835.4	4772.8	3897.1
57.5°	1605.5	1643.4	1895.5	2475.5	3212.8	3648.8	4287.6	4947.2	5098.8	5059.0	4092.3
60°	1209.3	1247.2	1408.3	2007.3	2864.1	3417.6	4192.8	5062.8	5335.8	5294.1	4234.5
62.5°	866.2	896.6	1016.0	1561.9	2439.5	3142.7	3959.7	5064.7	5470.4	5436.2	4302.7
65°	623.6	623.6	720.3	1114.5	2041.4	2812.9	3607.1	4831.6	5441.9	5432.5	4255.4
67.5°	449.2	453.0	530.7	779.0	1628.2	2412.9	3150.3	4416.5	5222.1	5269.4	4084.8
70°	318.4	327.9	363.9	544.0	1230.2	1905.0	2661.3	3872.5	4825.9	4909.3	3755.0
72.5°	246.4	252.1	276.7	379.1	898.5	1415.9	2121.0	3265.9	4297.1	4391.8	3305.7
75°	189.5	195.2	214.2	278.6	644.5	993.2	1506.9	2534.3	3464.9	3633.6	2655.6
77.5°	138.4	146.0	159.2	202.8	375.3	631.2	913.6	1425.4	1912.5	1992.2	1391.3
80°	64.4	73.9	92.9	130.8	202.8	297.6	324.1	549.7	919.3	961.0	754.4
82.5°	36.0	45.5	53.1	79.6	102.4	106.1	109.9	138.4	346.9	382.9	316.5
85°	17.1	22.7	24.6	34.1	34.1	30.3	36.0	26.5	56.9	68.2	66.3
87.5°	0.0	1.9	3.8	9.5	7.6	5.7	5.7	5.7	5.7	7.6	5.7
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°	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2
2.5°	1658.5	1633.9	1577.0	1527.8	1495.5	1467.1	1429.2	1412.1	1381.8	1387.5	1370.4
5°	1668.0	1622.5	1522.1	1429.2	1361.0	1300.3	1234.0	1196.0	1154.3	1150.6	1137.3
7.5°	1673.7	1603.6	1459.5	1328.7	1224.5	1131.6	1042.5	993.2	942.1	930.7	919.3
10°	1668.0	1575.1	1395.1	1224.5	1086.1	970.5	870.0	807.5	754.4	741.1	729.8
12.5°	1673.7	1560.0	1334.4	1127.8	962.9	832.1	718.4	653.9	604.7	591.4	583.8
15°	1687.0	1550.5	1283.2	1040.6	853.0	707.0	595.2	540.2	500.4	487.1	483.3
17.5°	1698.4	1541.0	1228.3	955.3	743.0	597.1	500.4	454.9	420.8	407.5	403.7
20°	1713.5	1527.8	1173.3	873.8	646.4	509.9	424.6	384.8	358.2	348.8	346.9
22.5°	1726.8	1518.3	1122.1	792.3	557.3	439.8	367.7	335.5	316.5	307.1	307.1
25°	1760.9	1522.1	1078.5	716.5	490.9	384.8	324.1	299.5	284.3	278.6	278.6
27.5°	1800.7	1537.2	1044.4	652.0	434.1	343.1	293.8	272.9	265.4	257.8	259.7
30°	1857.6	1567.6	1021.7	599.0	392.4	310.9	269.2	254.0	246.4	244.5	244.5
32.5°	1929.6	1616.8	1019.8	564.9	362.0	286.2	252.1	238.8	235.0	233.1	233.1
35°	2014.9	1660.4	1008.4	549.7	343.1	269.2	238.8	229.4	227.5	227.5	227.5
37.5°	2117.3	1732.5	1000.8	528.8	333.6	259.7	229.4	221.8	221.8	221.8	221.8
40°	2223.4	1791.2	989.4	509.9	329.8	254.0	223.7	214.2	214.2	214.2	214.2
42.5°	2350.4	1876.5	985.7	500.4	324.1	250.2	216.1	204.7	206.6	206.6	208.5
45°	2503.9	1973.2	983.8	490.9	322.2	246.4	208.5	195.2	197.1	195.2	195.2
47.5°	2659.4	2085.0	989.4	485.2	320.3	242.6	202.8	185.8	185.8	183.9	183.9
50°	2822.4	2187.4	993.2	479.6	316.5	235.0	193.3	178.2	174.4	170.6	172.5
52.5°	2975.9	2282.2	995.1	470.1	305.2	223.7	185.8	168.7	163.0	157.3	159.2
55°	3129.4	2373.1	998.9	458.7	290.0	212.3	176.3	159.2	151.6	144.1	144.1
57.5°	3267.8	2452.8	989.4	430.3	272.9	200.9	166.8	147.8	136.5	128.9	128.9
60°	3362.6	2509.6	961.0	388.6	250.2	187.7	157.3	136.5	123.2	117.5	117.5
62.5°	3408.1	2519.1	909.8	320.3	221.8	174.4	146.0	125.1	113.7	109.9	109.9
65°	3364.5	2477.4	830.2	240.7	191.4	159.2	134.6	115.6	104.3	94.8	94.8
67.5°	3212.8	2359.9	720.3	182.0	163.0	144.1	123.2	106.1	92.9	85.3	85.3
70°	2907.7	2115.4	557.3	146.0	138.4	125.1	111.8	94.8	83.4	73.9	73.9
72.5°	2507.7	1793.1	392.4	117.5	117.5	106.1	94.8	83.4	72.0	64.4	64.4
75°	1923.9	1326.8	263.5	94.8	96.7	89.1	77.7	68.2	60.7	55.0	55.0
77.5°	1050.1	655.8	161.1	70.1	72.0	68.2	60.7	55.0	51.2	45.5	45.5
80°	509.9	288.1	92.9	49.3	51.2	49.3	45.5	39.8	39.8	36.0	36.0
82.5°	214.2	108.0	49.3	34.1	34.1	30.3	28.4	28.4	28.4	26.5	26.5
85°	53.1	20.9	20.9	19.0	19.0	19.0	17.1	17.1	17.1	13.3	15.2
87.5°	7.6	7.6	7.6	7.6	7.6	7.6	5.7	1.9	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)