

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: P1210420

Luminaire Tested: **ARCH3-120-722-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210420
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-120-722-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11166 lumens
Efficiency: N/A
Efficacy: 91.0 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

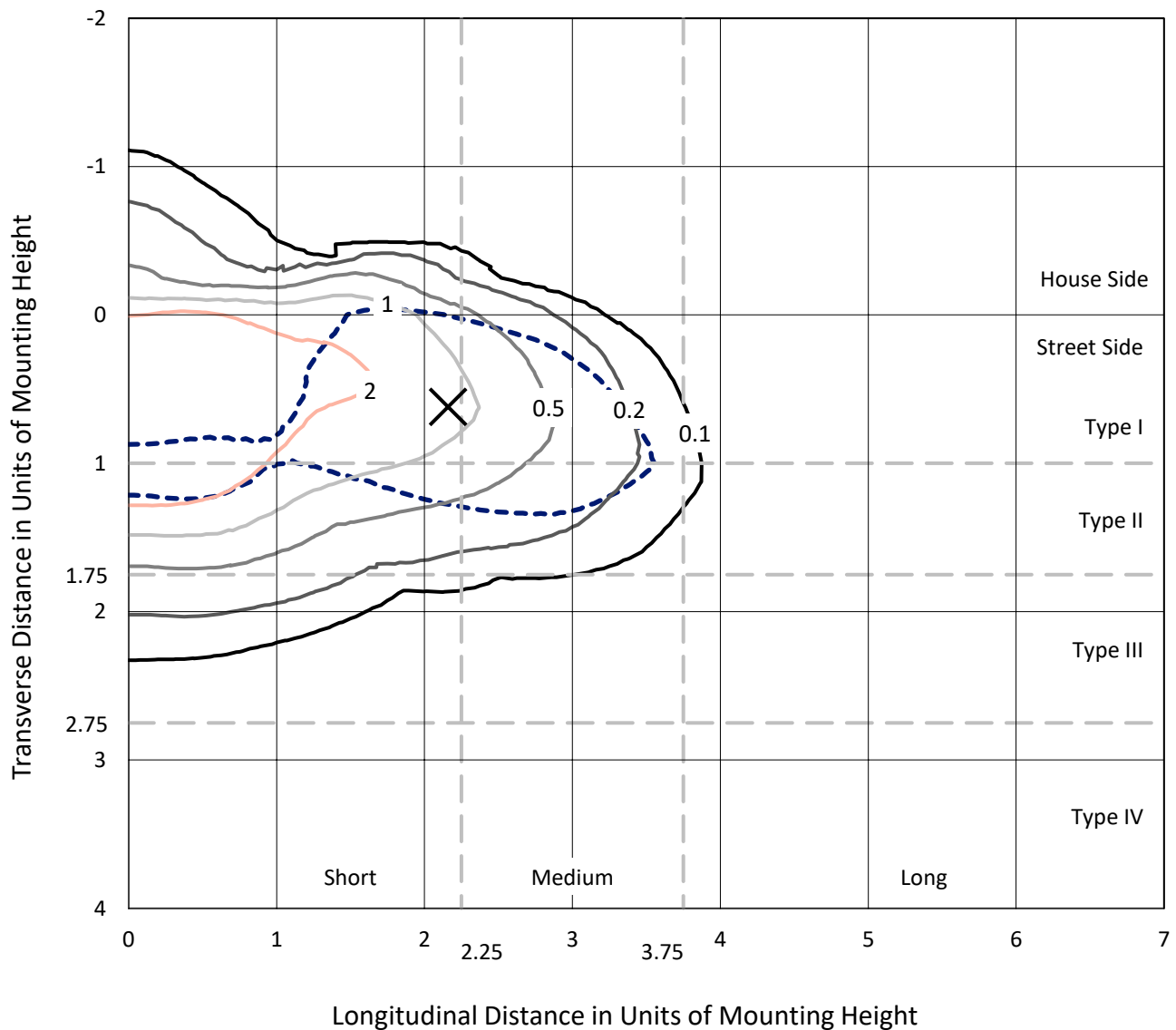
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

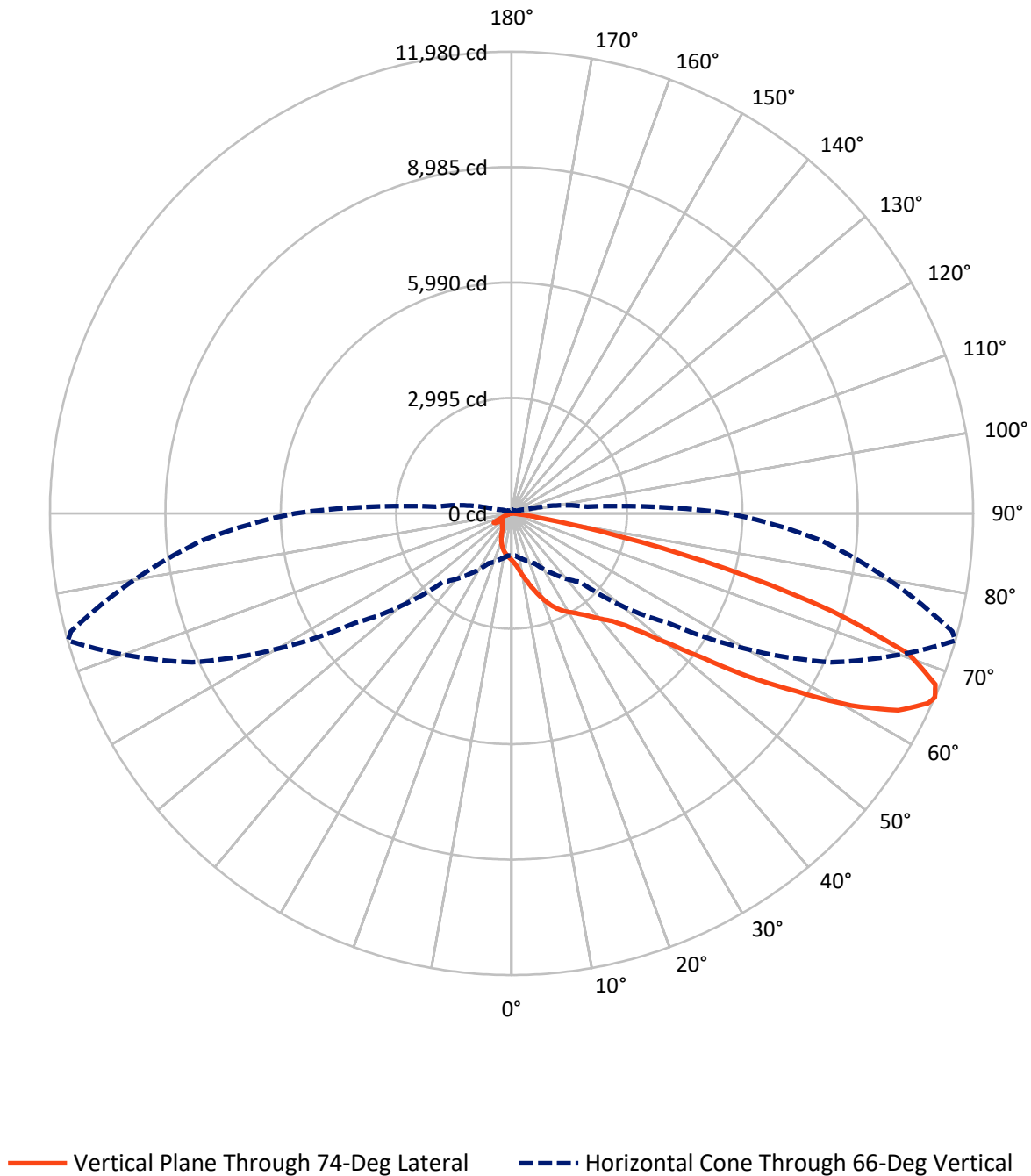
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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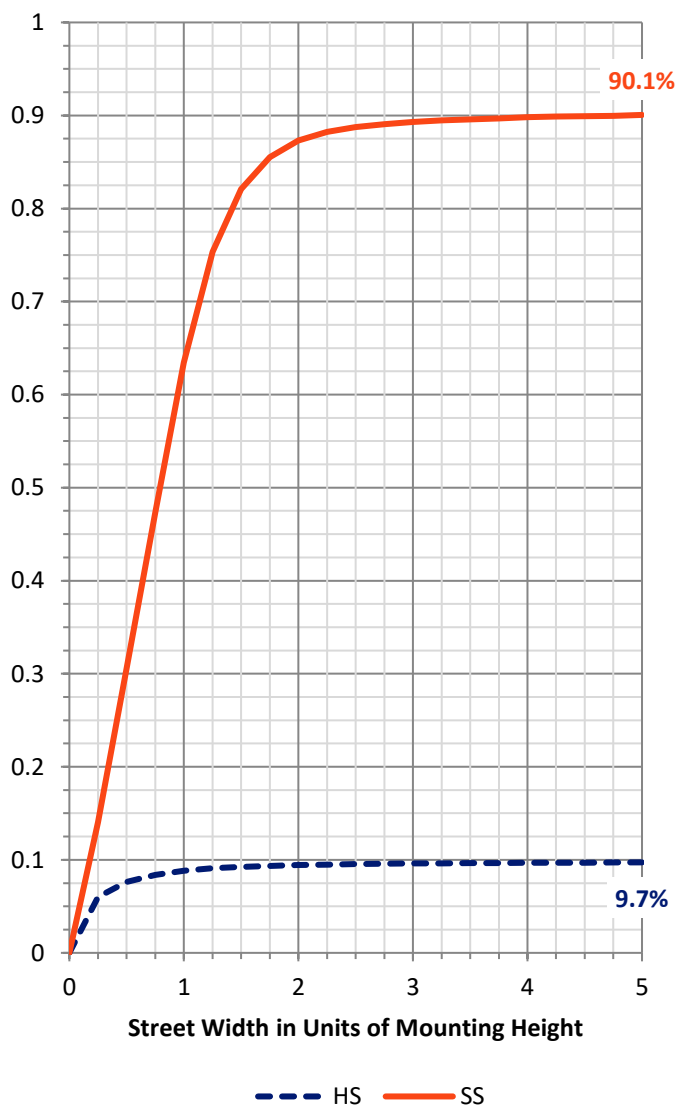
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1094.6	0.0	1094.6
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	10071.4	0.0	10071.4
	% Fixture	90.2	0.0	90.2
Total	Lumens	11166.0	0.0	11166.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.0	1.1
10°-20°	381.4	3.4
20°-30°	727.9	6.5
30°-40°	1275.8	11.4
40°-50°	2187.6	19.6
50°-60°	2845.2	25.5
60°-70°	2575.6	23.1
70°-80°	993.8	8.9
80°-90°	59.8	0.5
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°	11166.0	100.0
0°-180°	11166.0	100.0

Coefficient of Utilization



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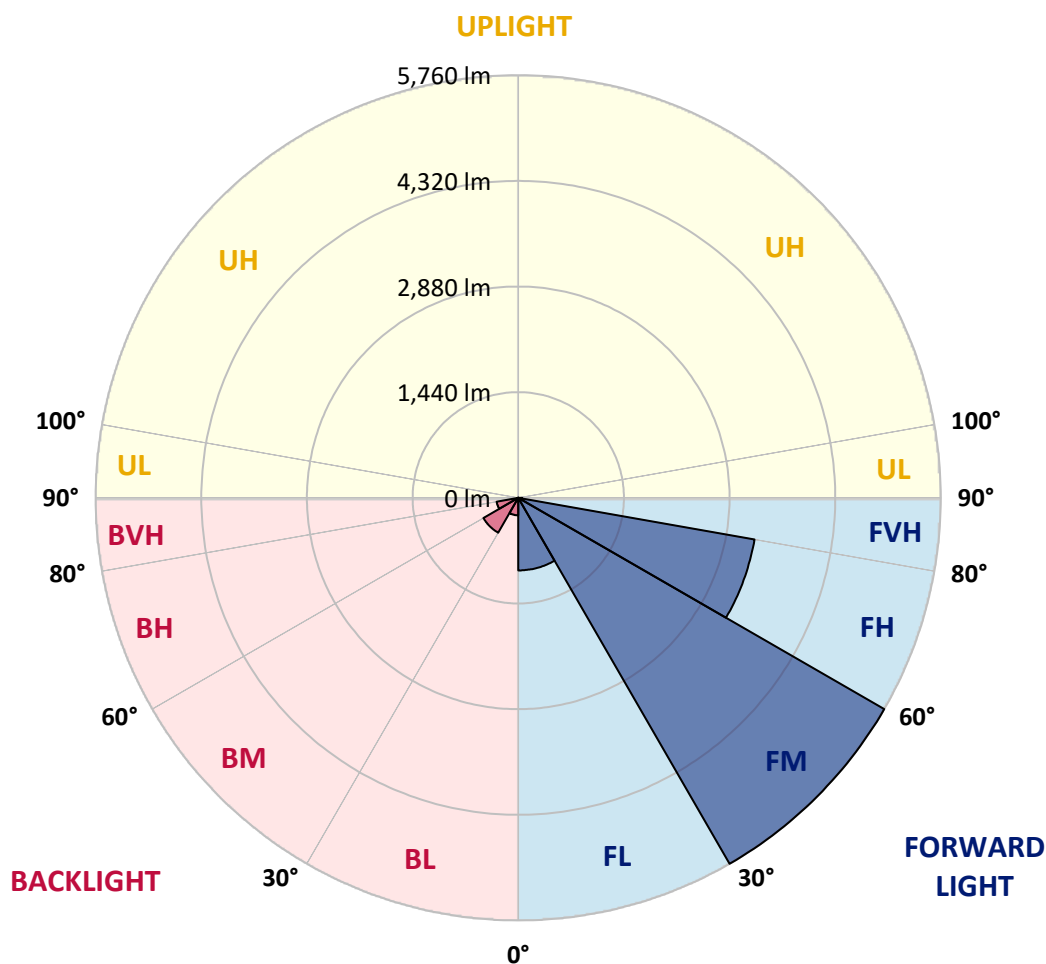
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	989.5	8.9			
FM	(30°-60°)	5760.0	51.6			
FH	(60°-80°)	3270.1	29.3			G2/5000
FVH	(80°-90°)	51.8	0.5			G1/100
BL	(0°-30°)	238.8	2.1	B1/500		
BM	(30°-60°)	548.6	4.9	B1/1000		
BH	(60°-80°)	299.3	2.7	B1/500		G1/500
BVH	(80°-90°)	8.0	0.1			G0/10
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°	74°	75°	85°
0°	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9
2.5°	1463.4	1451.4	1429.4	1427.4	1409.3	1387.3	1349.2	1309.1	1281.0	1277.0	1242.9
5°	1752.1	1746.1	1724.1	1710.0	1675.9	1623.8	1535.6	1447.4	1373.2	1365.2	1289.0
7.5°	1828.3	1832.3	1836.3	1850.3	1838.3	1814.3	1748.1	1623.8	1507.5	1489.5	1357.2
10°	1840.3	1836.3	1836.3	1854.4	1888.4	1922.5	1914.5	1808.3	1657.9	1635.8	1451.4
12.5°	1970.6	1976.6	1962.6	1954.6	1948.6	1966.6	2026.8	1980.7	1816.3	1798.2	1565.7
15°	2139.0	2137.0	2117.0	2117.0	2098.9	2068.9	2107.0	2141.0	2006.7	1984.7	1696.0
17.5°	2261.3	2269.3	2267.3	2279.4	2273.3	2233.3	2213.2	2283.4	2203.2	2175.1	1844.3
20°	2359.5	2381.6	2389.6	2427.7	2445.7	2417.7	2365.6	2409.7	2391.6	2365.6	1994.7
22.5°	2463.8	2481.8	2495.9	2562.0	2612.1	2606.1	2540.0	2529.9	2574.1	2550.0	2143.0
25°	2568.0	2576.1	2618.2	2698.3	2778.5	2798.6	2730.4	2652.2	2738.4	2716.4	2275.3
27.5°	2682.3	2686.3	2736.4	2834.7	2946.9	2989.0	2934.9	2790.6	2864.7	2864.7	2395.6
30°	2890.8	2930.9	2950.9	3039.1	3137.4	3195.5	3131.4	2936.9	2977.0	2995.0	2521.9
32.5°	3339.9	3345.9	3339.9	3377.9	3398.0	3432.1	3357.9	3101.3	3091.3	3111.3	2646.2
35°	4025.5	4001.4	3937.3	3881.1	3764.9	3700.7	3604.5	3311.8	3231.6	3259.7	2768.5
37.5°	4857.4	4823.3	4677.0	4504.6	4256.0	3999.4	3879.1	3568.4	3410.0	3446.1	2900.8
40°	5651.3	5629.2	5454.8	5242.3	4817.3	4378.3	4123.7	3784.9	3608.5	3622.5	3035.1
42.5°	6304.8	6300.8	6154.5	5931.9	5386.7	4787.3	4412.4	3997.4	3817.0	3839.0	3175.5
45°	6800.0	6761.9	6653.6	6493.3	5938.0	5212.3	4761.2	4320.2	4151.8	4177.8	3386.0
47.5°	6800.0	6806.0	6876.2	6860.1	6322.9	5611.2	5142.1	4727.1	4646.9	4671.0	3732.8
50°	6246.7	6302.8	6615.6	6878.2	6523.3	5921.9	5553.1	5236.3	5318.5	5354.6	4338.2
52.5°	5152.1	5246.3	5789.6	6389.0	6375.0	6078.3	5978.1	5883.8	6252.7	6316.9	5232.3
55°	3915.2	3977.4	4685.0	5472.9	5729.5	5950.0	6348.9	6705.8	7489.6	7475.6	6140.4
57.5°	2924.9	2983.0	3592.4	4466.5	4805.3	5394.7	6539.4	7646.0	8716.5	8770.6	6992.4
60°	2151.1	2195.2	2714.4	3432.1	3921.2	4544.7	6463.2	8572.2	10129.8	10067.7	7744.2
62.5°	1591.7	1615.8	1990.7	2457.8	3107.3	3702.7	5984.1	9205.6	11258.5	11132.2	8163.2
65°	1230.9	1238.9	1433.4	1682.0	2259.3	2878.8	5270.4	9301.9	11881.9	11747.6	8155.2
66°	1096.6	1102.6	1244.9	1437.4	1922.5	2519.9	4957.7	9147.5	11980.2	11837.8	8054.9
67.5°	920.2	916.2	1000.4	1126.6	1443.4	1944.6	4402.3	8696.4	11863.9	11791.7	7734.2
70°	681.6	683.6	725.7	755.8	844.0	1076.5	3179.5	7543.7	10933.7	10929.7	6854.1
72.5°	505.2	511.2	543.3	549.3	527.2	583.4	1832.3	6000.1	8746.6	8748.6	5124.0
75°	378.9	388.9	398.9	402.9	382.9	368.9	827.9	4037.5	5753.5	5711.4	2900.8
77.5°	288.7	292.7	300.7	294.7	290.7	254.6	344.8	1968.6	2840.7	2588.1	940.2
80°	210.5	210.5	218.5	210.5	208.5	182.4	188.4	631.5	834.0	693.6	202.5
82.5°	132.3	130.3	136.3	134.3	130.3	116.3	110.3	176.4	192.5	172.4	98.2
85°	74.2	72.2	70.2	68.2	62.1	52.1	60.1	66.2	88.2	90.2	70.2
87.5°	26.1	26.1	24.1	22.1	18.0	18.0	22.1	22.1	32.1	32.1	36.1
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°	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9
2.5°	1226.9	1204.8	1172.8	1130.7	1100.6	1070.5	1038.4	1020.4	994.3	988.3	996.3
5°	1248.9	1208.8	1128.7	1040.4	964.3	896.1	832.0	793.9	755.8	741.7	747.8
7.5°	1295.0	1226.9	1090.6	948.2	821.9	719.7	643.5	599.4	565.3	551.3	555.3
10°	1363.2	1259.0	1054.5	844.0	681.6	573.3	509.2	481.1	461.1	453.1	455.1
12.5°	1445.4	1305.1	1008.4	739.7	561.3	467.1	437.0	431.0	427.0	423.0	425.0
15°	1537.6	1345.2	954.2	637.5	467.1	415.0	405.0	402.9	400.9	400.9	400.9
17.5°	1633.8	1381.2	894.1	541.3	407.0	382.9	376.9	376.9	376.9	378.9	378.9
20°	1724.1	1409.3	823.9	455.1	372.9	352.8	348.8	348.8	350.8	352.8	352.8
22.5°	1812.3	1421.3	741.7	394.9	344.8	326.8	320.8	320.8	320.8	322.8	322.8
25°	1888.4	1421.3	659.6	356.8	320.8	302.7	294.7	292.7	294.7	294.7	294.7
27.5°	1952.6	1415.3	579.4	330.8	296.7	278.7	270.6	268.6	272.6	274.6	274.6
30°	2020.8	1407.3	515.2	306.7	276.7	258.6	250.6	250.6	256.6	264.6	264.6
32.5°	2086.9	1413.3	465.1	286.7	256.6	242.6	234.6	236.6	248.6	260.6	260.6
35°	2157.1	1425.4	435.0	272.6	242.6	228.5	222.5	228.5	240.6	252.6	252.6
37.5°	2227.2	1439.4	417.0	260.6	230.5	216.5	212.5	220.5	234.6	246.6	248.6
40°	2301.4	1451.4	396.9	248.6	222.5	206.5	204.5	212.5	230.5	242.6	244.6
42.5°	2393.6	1475.5	372.9	238.6	214.5	194.5	196.5	202.5	220.5	238.6	240.6
45°	2574.1	1551.6	348.8	228.5	204.5	188.4	184.4	188.4	208.5	228.5	232.5
47.5°	2912.8	1724.1	322.8	218.5	194.5	184.4	168.4	172.4	190.4	212.5	214.5
50°	3562.4	2090.9	308.7	208.5	186.4	170.4	152.4	152.4	166.4	186.4	186.4
52.5°	4574.8	2748.5	316.7	200.5	176.4	156.4	138.3	136.3	144.3	158.4	158.4
55°	5667.3	3470.2	346.8	192.5	164.4	148.3	128.3	118.3	124.3	132.3	132.3
57.5°	6533.4	3833.0	429.0	188.4	150.4	142.3	116.3	102.2	108.3	116.3	116.3
60°	6914.3	3620.5	521.2	192.5	140.3	132.3	104.2	90.2	100.2	108.3	110.3
62.5°	6605.5	2981.0	559.3	182.4	126.3	118.3	102.2	84.2	96.2	102.2	104.2
65°	5938.0	2265.3	437.0	158.4	116.3	102.2	92.2	80.2	90.2	96.2	96.2
66°	5621.2	1974.6	372.9	146.3	112.3	96.2	88.2	80.2	88.2	92.2	94.2
67.5°	5130.1	1557.7	276.7	128.3	104.2	88.2	82.2	76.2	84.2	88.2	88.2
70°	4011.4	928.2	166.4	100.2	90.2	78.2	74.2	70.2	76.2	78.2	78.2
72.5°	2511.9	441.0	106.2	74.2	76.2	74.2	62.1	66.2	68.2	70.2	70.2
75°	1216.9	174.4	72.2	54.1	62.1	70.2	50.1	58.1	60.1	64.2	62.1
77.5°	338.8	84.2	46.1	40.1	54.1	54.1	38.1	46.1	54.1	68.2	62.1
80°	98.2	54.1	30.1	30.1	38.1	38.1	26.1	32.1	36.1	40.1	42.1
82.5°	68.2	36.1	20.0	22.1	22.1	24.1	16.0	16.0	20.0	20.0	22.1
85°	54.1	16.0	12.0	14.0	10.0	12.0	8.0	8.0	10.0	8.0	8.0
87.5°	22.1	8.0	8.0	8.0	6.0	6.0	4.0	2.0	2.0	2.0	2.0
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)