

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: P836833

Luminaire Tested: **ARCH3-80-730-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836833
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-80-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 650mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

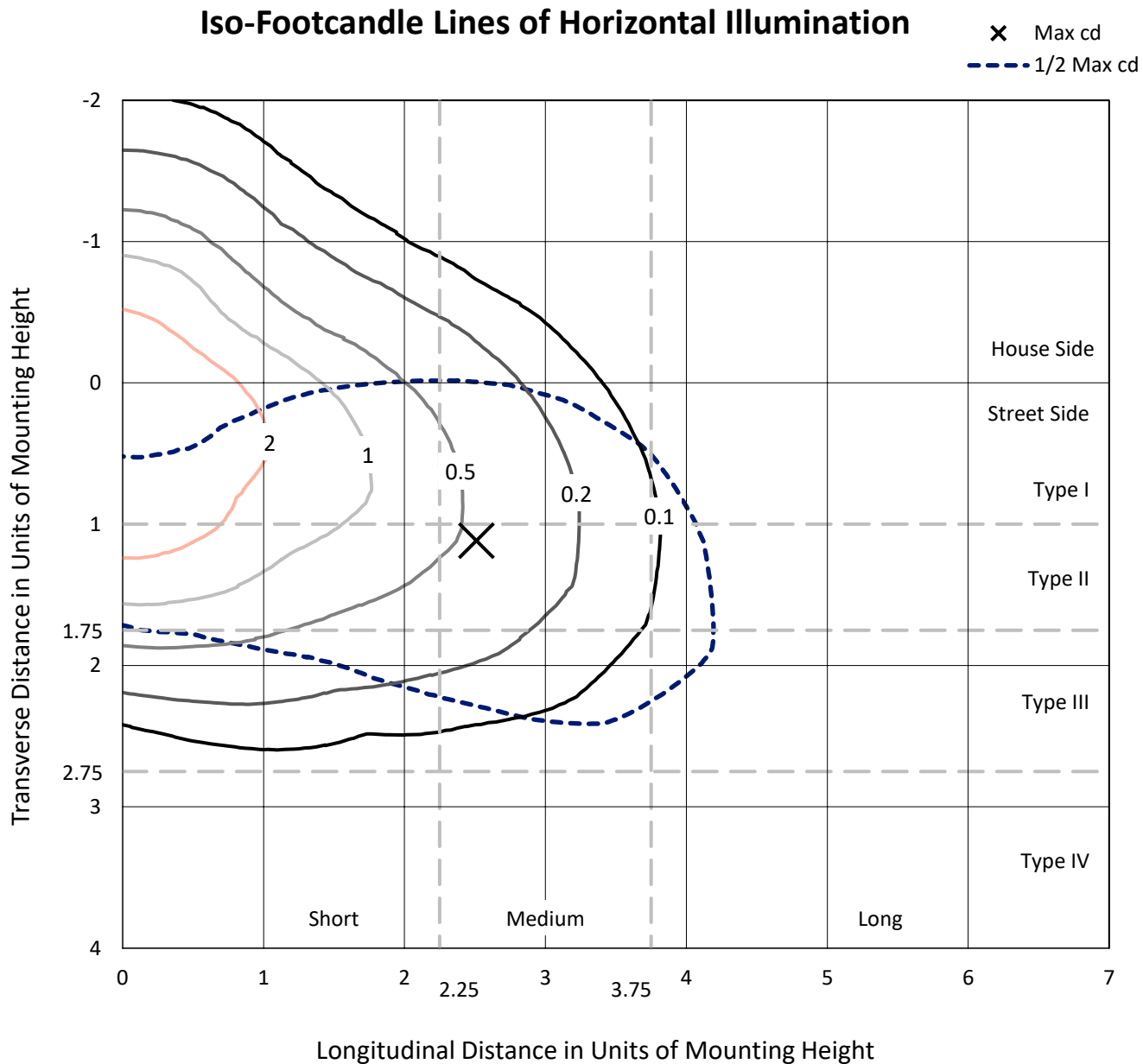
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13112 lumens
Efficiency: N/A
Efficacy: 160.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - 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



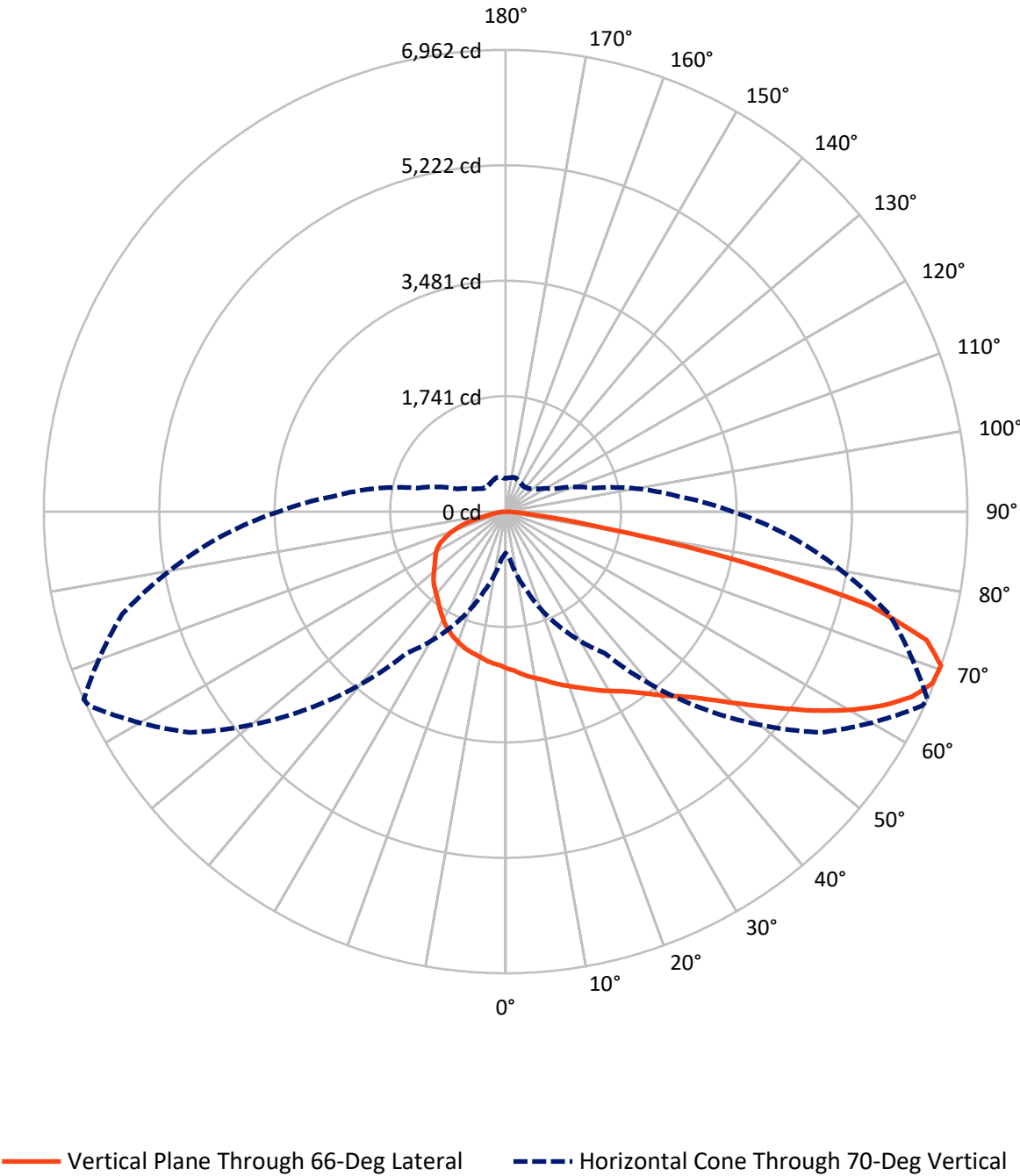
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Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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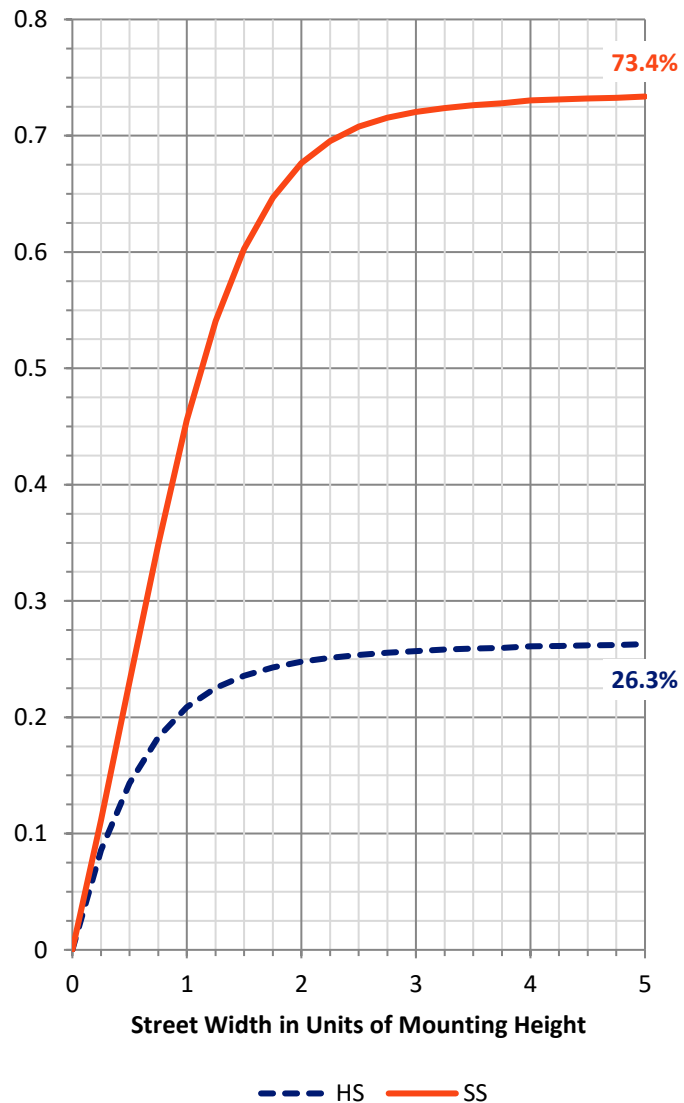
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3474.4	0.0	3474.4
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	9637.6	0.0	9637.6
	% Fixture	73.5	0.0	73.5
Total	Lumens	13112.0	0.0	13112.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.4	1.7
10°-20°	682.1	5.2
20°-30°	1143.4	8.7
30°-40°	1712.0	13.1
40°-50°	2289.0	17.5
50°-60°	2672.5	20.4
60°-70°	2657.4	20.3
70°-80°	1573.2	12.0
80°-90°	155.1	1.2
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°	13112.0	100.0
0°-180°	13112.0	100.0

Coefficient of Utilization



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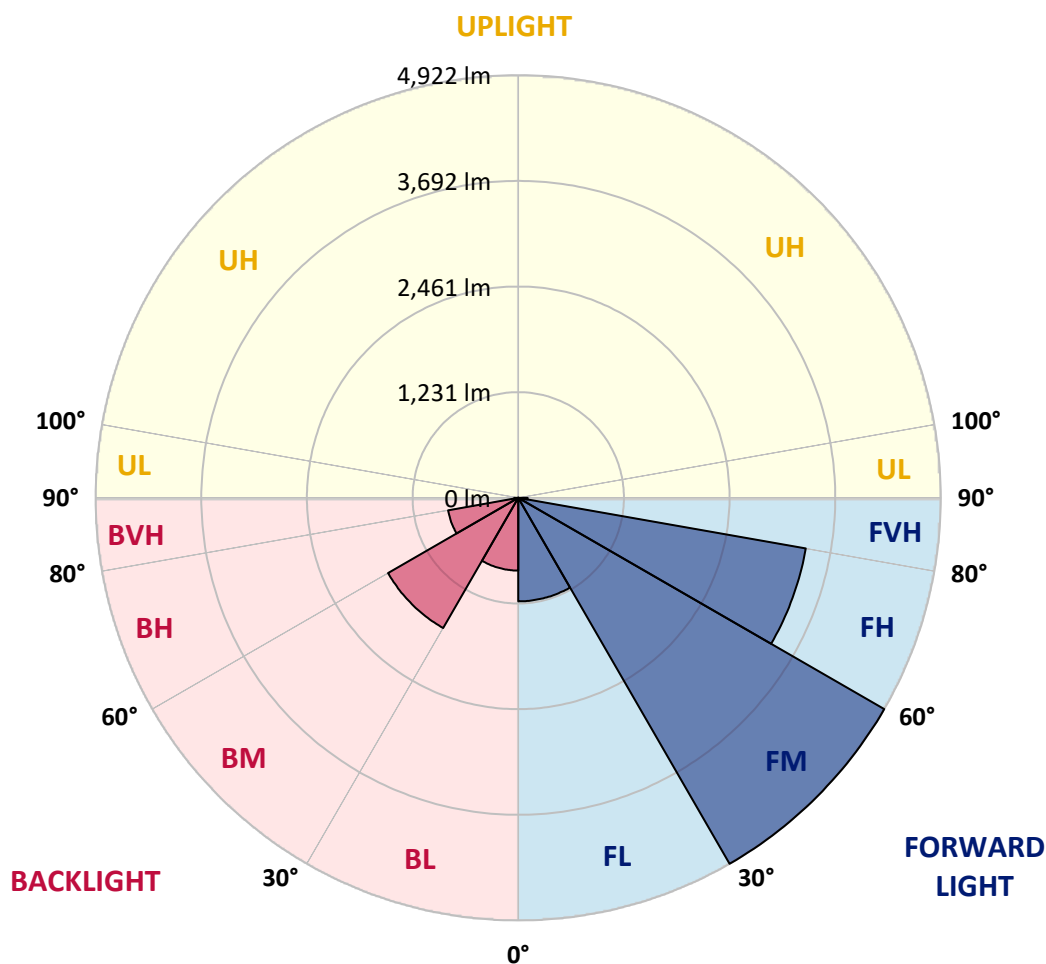
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1206.0	9.2			
FM	(30°-60°)	4922.1	37.5			
FH	(60°-80°)	3400.6	25.9			G2/5000
FVH	(80°-90°)	109.0	0.8			G2/225
BL	(0°-30°)	846.9	6.5	B2/1000		
BM	(30°-60°)	1751.4	13.4	B2/2500		
BH	(60°-80°)	829.9	6.3	B2/1000		G2/1000
BVH	(80°-90°)	46.1	0.4			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2366.4	2366.4	2366.4	2366.4	2366.4	2366.4	2366.4	2366.4	2366.4	2366.4	2366.4
2.5°	2453.4	2449.6	2447.6	2439.9	2422.5	2430.2	2412.8	2401.2	2399.3	2372.2	2356.8
5°	2554.0	2552.0	2548.2	2536.6	2509.5	2513.4	2484.4	2463.1	2457.3	2414.8	2381.9
7.5°	2639.0	2635.2	2633.2	2617.8	2588.8	2586.8	2552.0	2521.1	2511.4	2453.4	2403.2
10°	2704.8	2699.0	2702.8	2687.4	2656.4	2650.6	2606.2	2565.6	2555.9	2482.4	2412.8
12.5°	2760.8	2757.0	2762.8	2749.2	2724.1	2718.3	2673.8	2621.6	2610.0	2525.0	2434.1
15°	2822.7	2809.2	2820.8	2815.0	2797.6	2795.6	2755.0	2697.0	2681.6	2579.1	2467.0
17.5°	2855.6	2847.8	2861.4	2863.3	2855.6	2869.1	2830.4	2760.8	2747.3	2629.4	2496.0
20°	2878.8	2867.2	2882.6	2894.2	2900.0	2927.1	2896.2	2828.5	2813.0	2677.7	2523.0
22.5°	2958.0	2932.9	2934.8	2942.6	2946.4	2985.1	2965.8	2900.0	2884.6	2737.6	2555.9
25°	3157.2	3106.9	3074.0	3050.8	3023.8	3056.6	3045.0	2981.2	2967.7	2809.2	2596.5
27.5°	3466.5	3402.7	3337.0	3269.3	3163.0	3149.4	3130.1	3072.1	3056.6	2880.7	2637.1
30°	3818.4	3754.6	3677.2	3569.0	3369.8	3265.4	3221.0	3157.2	3139.8	2944.5	2675.8
32.5°	4168.3	4112.2	4034.9	3903.4	3619.2	3406.6	3311.8	3246.1	3228.7	3014.1	2722.2
35°	4440.9	4406.1	4355.8	4191.5	3866.7	3572.8	3443.3	3364.0	3344.7	3124.3	2807.2
37.5°	4661.3	4636.2	4593.6	4421.6	4046.5	3739.1	3594.1	3503.2	3482.0	3244.2	2898.1
40°	4986.1	4920.4	4885.6	4636.2	4203.1	3889.9	3764.2	3669.5	3646.3	3371.8	2971.6
42.5°	5262.6	5214.2	5171.7	4827.6	4352.0	4019.4	3924.7	3837.7	3806.8	3497.4	3050.8
45°	5309.0	5328.3	5307.0	4922.3	4587.8	4147.0	4087.1	4031.0	4002.0	3667.6	3170.7
47.5°	5310.9	5310.9	5185.2	4976.4	4879.8	4290.1	4261.1	4280.4	4249.5	3884.1	3313.8
50°	5171.7	5196.8	5131.1	4990.0	4957.1	4433.2	4473.8	4578.2	4547.2	4114.2	3468.4
52.5°	4883.6	4966.8	4964.8	4968.7	4845.0	4555.0	4698.0	4935.8	4883.6	4373.2	3632.8
55°	4375.2	4541.4	4690.3	4817.9	4748.3	4628.4	4972.6	5316.7	5262.6	4663.2	3799.0
57.5°	3940.2	4046.5	4232.1	4593.6	4634.2	4692.2	5229.7	5715.0	5666.6	4984.2	3973.0
60°	3443.3	3590.2	3775.8	4290.1	4495.0	4775.4	5512.0	6103.6	6057.2	5309.0	4141.2
62.5°	2679.6	2869.1	3240.3	3824.2	4292.0	4827.6	5734.3	6445.8	6424.5	5616.4	4292.0
65°	1867.6	2035.8	2555.9	3251.9	3969.2	4804.4	5912.2	6751.2	6731.9	5867.7	4398.4
67.5°	1090.4	1285.7	1873.4	2617.8	3398.8	4643.9	5970.2	6931.1	6931.1	6020.4	4427.4
70°	622.5	713.4	1235.4	1908.2	2606.2	4201.2	5807.8	6929.1	6962.0	5985.6	4307.5
72.5°	435.0	475.6	831.3	1283.7	1767.1	3398.8	5382.4	6594.6	6639.1	5657.0	3897.6
75°	338.3	367.3	585.8	875.8	1113.6	2308.4	4452.5	5560.3	5678.2	4821.8	3151.4
77.5°	257.1	278.4	342.2	547.1	713.4	1326.3	2938.7	3646.3	3654.0	2952.2	1689.7
80°	187.5	208.8	228.1	334.5	378.9	620.6	1109.7	1523.5	1480.9	1428.7	914.5
82.5°	112.1	133.4	139.2	181.7	185.6	264.9	388.6	491.1	471.7	628.3	429.2
85°	48.3	67.7	71.5	83.1	79.3	108.3	154.7	129.5	116.0	133.4	92.8
87.5°	11.6	19.3	19.3	21.3	17.4	27.1	29.0	21.3	19.3	23.2	23.2
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°	2366.4	2366.4	2366.4	2366.4	2366.4	2366.4	2366.4	2366.4	2366.4	2366.4	2366.4
2.5°	2352.9	2347.1	2349.0	2316.2	2306.5	2296.8	2291.0	2287.2	2283.3	2289.1	2294.9
5°	2370.3	2356.8	2341.3	2293.0	2273.6	2252.3	2236.9	2223.3	2217.5	2217.5	2223.3
7.5°	2383.8	2360.6	2327.8	2263.9	2229.1	2200.1	2175.0	2157.6	2147.9	2147.9	2153.7
10°	2385.8	2352.9	2300.7	2223.3	2176.9	2134.4	2105.4	2086.1	2072.5	2072.5	2076.4
12.5°	2397.4	2352.9	2285.2	2192.4	2134.4	2082.2	2047.4	2018.4	2012.6	2012.6	2016.5
15°	2416.7	2362.6	2275.6	2165.3	2095.7	2035.8	1997.1	1966.2	1954.6	1962.3	1964.3
17.5°	2434.1	2368.4	2258.1	2130.5	2047.4	1981.7	1939.1	1912.1	1896.6	1914.0	1914.0
20°	2445.7	2368.4	2233.0	2086.1	1995.2	1921.7	1881.1	1848.3	1836.7	1857.9	1859.9
22.5°	2463.1	2366.4	2205.9	2041.6	1939.1	1861.8	1821.2	1796.1	1790.3	1813.5	1821.2
25°	2482.4	2370.3	2176.9	1991.3	1877.3	1801.9	1770.9	1759.3	1763.2	1792.2	1801.9
27.5°	2503.7	2378.0	2147.9	1935.3	1809.6	1741.9	1724.5	1730.3	1745.8	1782.5	1794.1
30°	2523.0	2380.0	2107.3	1869.5	1732.3	1668.5	1676.2	1701.3	1724.5	1761.3	1774.8
32.5°	2548.2	2381.9	2064.8	1798.0	1649.1	1602.7	1637.5	1678.1	1701.3	1736.1	1751.6
35°	2610.0	2414.8	2031.9	1728.4	1571.8	1546.7	1604.7	1656.9	1670.4	1701.3	1714.9
37.5°	2681.6	2468.9	2014.5	1656.9	1496.4	1490.6	1564.1	1616.3	1620.1	1639.5	1653.0
40°	2726.0	2492.1	1995.2	1596.9	1428.7	1432.6	1508.0	1548.6	1540.9	1554.4	1564.1
42.5°	2770.5	2499.8	1954.6	1546.7	1364.9	1368.8	1426.8	1455.8	1459.7	1488.7	1502.2
45°	2845.9	2521.1	1910.1	1500.3	1306.9	1293.4	1328.2	1366.9	1417.1	1473.2	1488.7
47.5°	2946.4	2565.6	1863.7	1444.2	1250.9	1206.4	1219.9	1287.6	1339.8	1392.0	1401.7
50°	3048.9	2610.0	1821.2	1376.5	1194.8	1113.6	1119.4	1181.3	1223.8	1264.4	1270.2
52.5°	3149.4	2648.7	1784.5	1312.7	1131.0	1003.4	1026.6	1090.4	1119.4	1138.7	1144.5
55°	3250.0	2681.6	1751.6	1258.6	1057.5	916.4	937.7	997.6	1026.6	1036.3	1040.1
57.5°	3354.4	2720.2	1726.5	1212.2	974.4	839.1	852.6	895.1	922.2	933.8	929.9
60°	3441.4	2753.1	1712.9	1163.9	891.3	767.5	763.7	802.3	841.0	852.6	848.7
62.5°	3509.0	2774.4	1691.7	1102.0	817.8	696.0	676.7	726.9	767.5	775.3	781.1
65°	3545.8	2776.3	1639.5	1022.7	742.4	618.7	605.1	655.4	680.5	688.3	688.3
67.5°	3540.0	2745.4	1537.0	916.4	672.8	549.1	537.5	568.4	605.1	610.9	605.1
70°	3420.1	2617.8	1372.7	804.3	589.7	487.2	465.9	496.9	531.7	510.4	500.7
72.5°	3079.8	2287.2	1131.0	680.5	496.9	409.9	400.2	431.1	433.1	436.9	427.3
75°	2430.2	1703.3	846.8	529.7	402.1	344.1	342.2	336.4	344.1	359.6	348.0
77.5°	1276.0	850.7	458.2	324.8	291.9	276.5	262.9	261.0	284.2	293.9	282.3
80°	692.1	477.5	262.9	195.3	177.9	179.8	197.2	193.3	218.5	224.3	214.6
82.5°	301.6	226.2	129.5	117.9	117.9	116.0	121.8	135.3	162.4	162.4	129.5
85°	65.7	56.1	50.3	58.0	65.7	65.7	65.7	65.7	46.4	25.1	17.4
87.5°	21.3	21.3	21.3	23.2	25.1	25.1	21.3	15.5	9.7	1.9	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)