

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: P836705

Luminaire Tested: **ARCH3-60-740-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-60-740-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 505mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

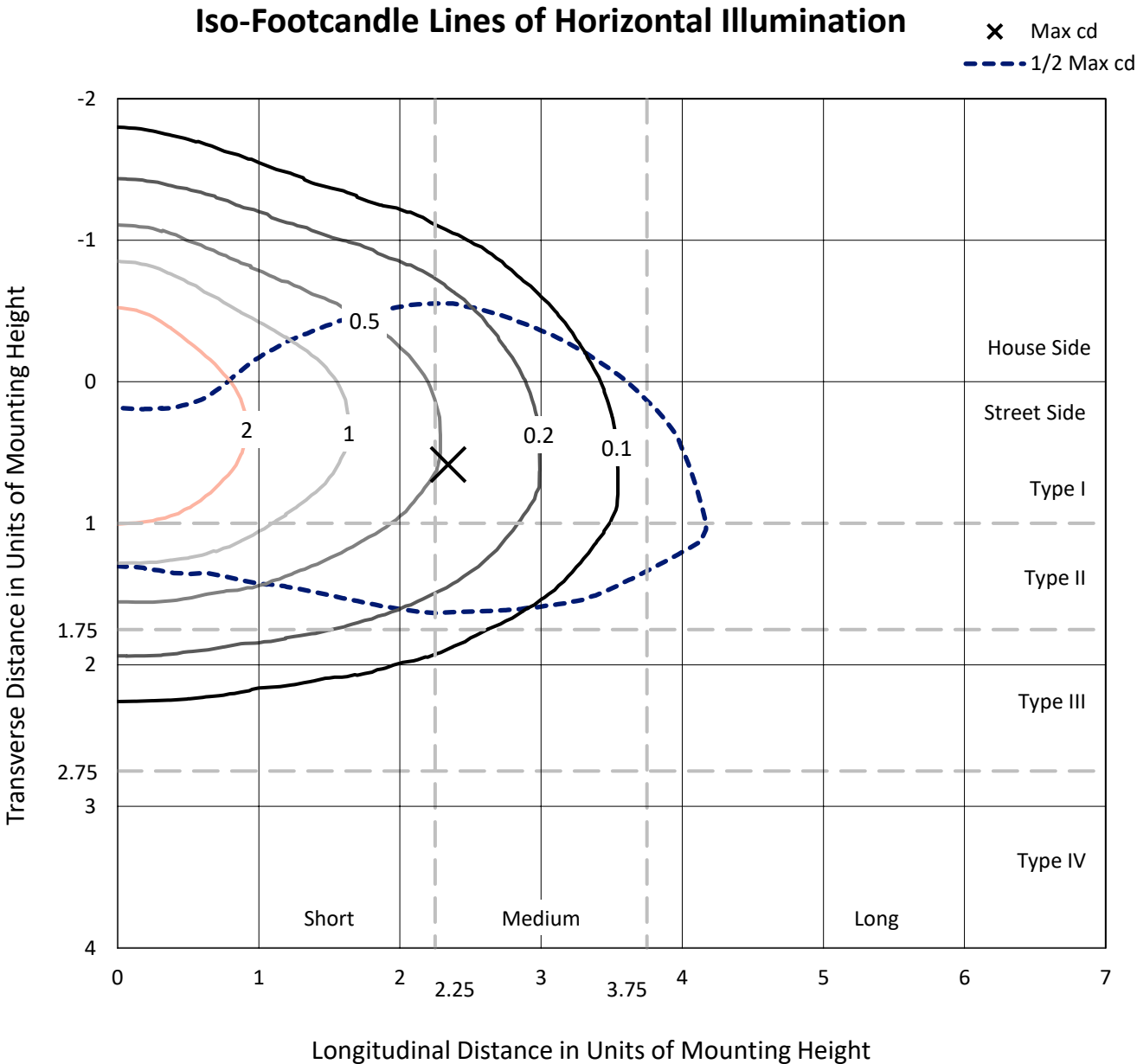
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11003 lumens
Efficiency: N/A
Efficacy: 174.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 63.2
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



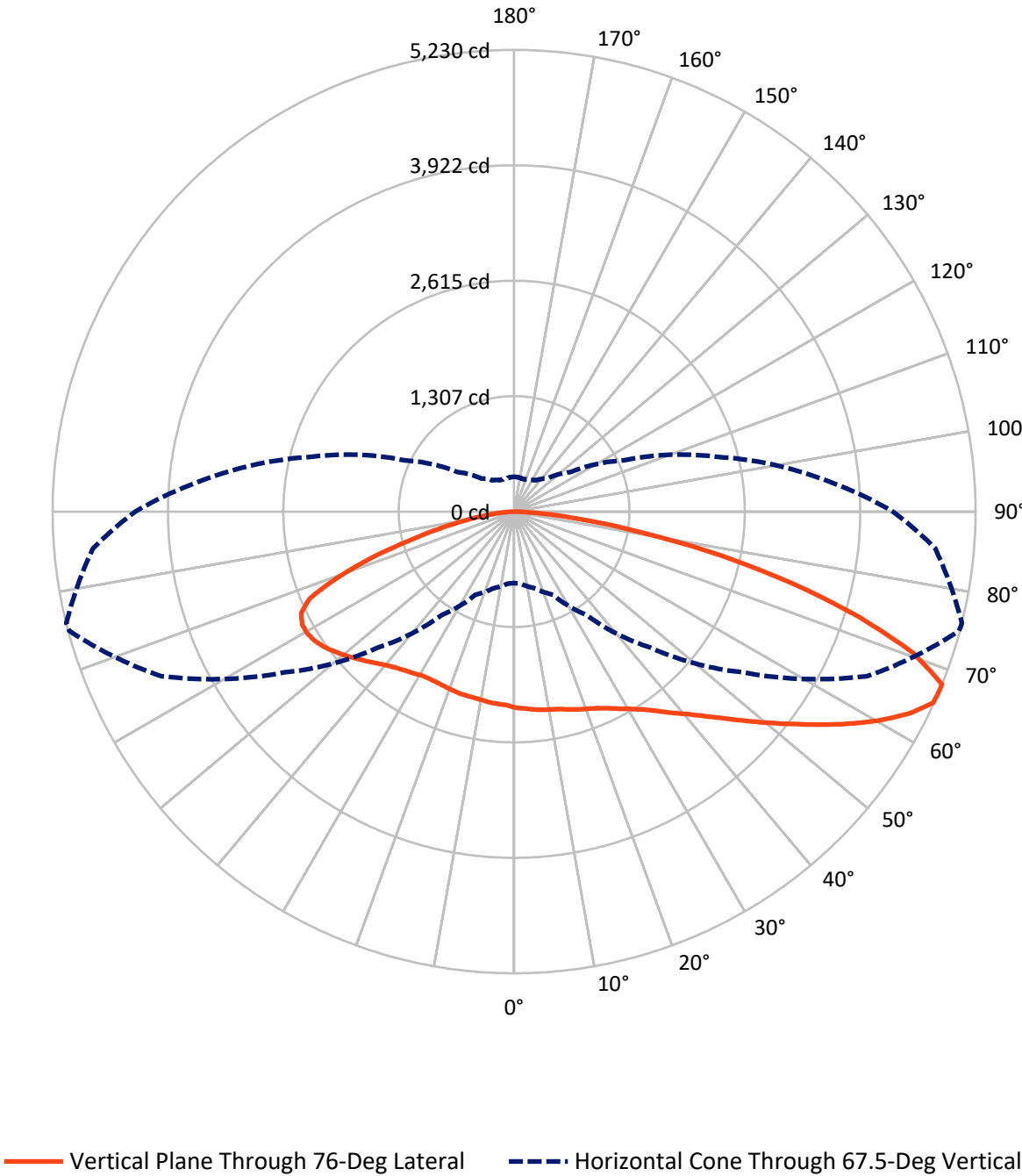
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Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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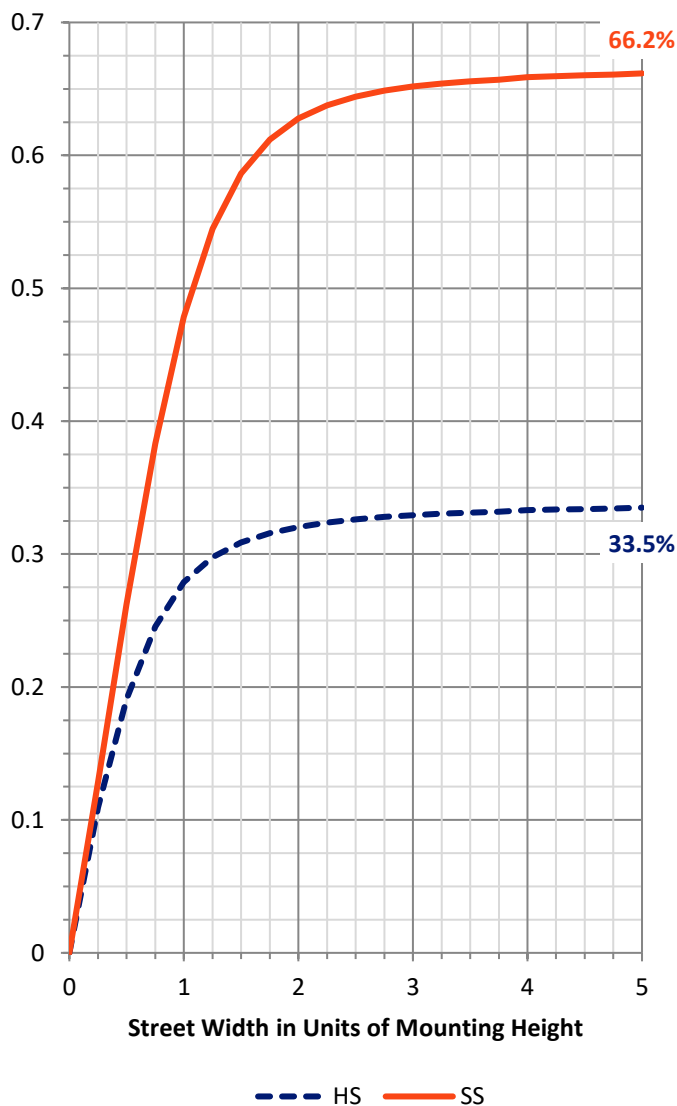
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3718.0	0.0	3718.0
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	7285.0	0.0	7285.0
	% Fixture	66.2	0.0	66.2
Total	Lumens	11003.0	0.0	11003.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.3	1.9
10°-20°	655.2	6.0
20°-30°	1113.2	10.1
30°-40°	1584.0	14.4
40°-50°	2000.5	18.2
50°-60°	2165.9	19.7
60°-70°	2014.5	18.3
70°-80°	1082.0	9.8
80°-90°	173.4	1.6
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°	11003.0	100.0
0°-180°	11003.0	100.0

Coefficient of Utilization



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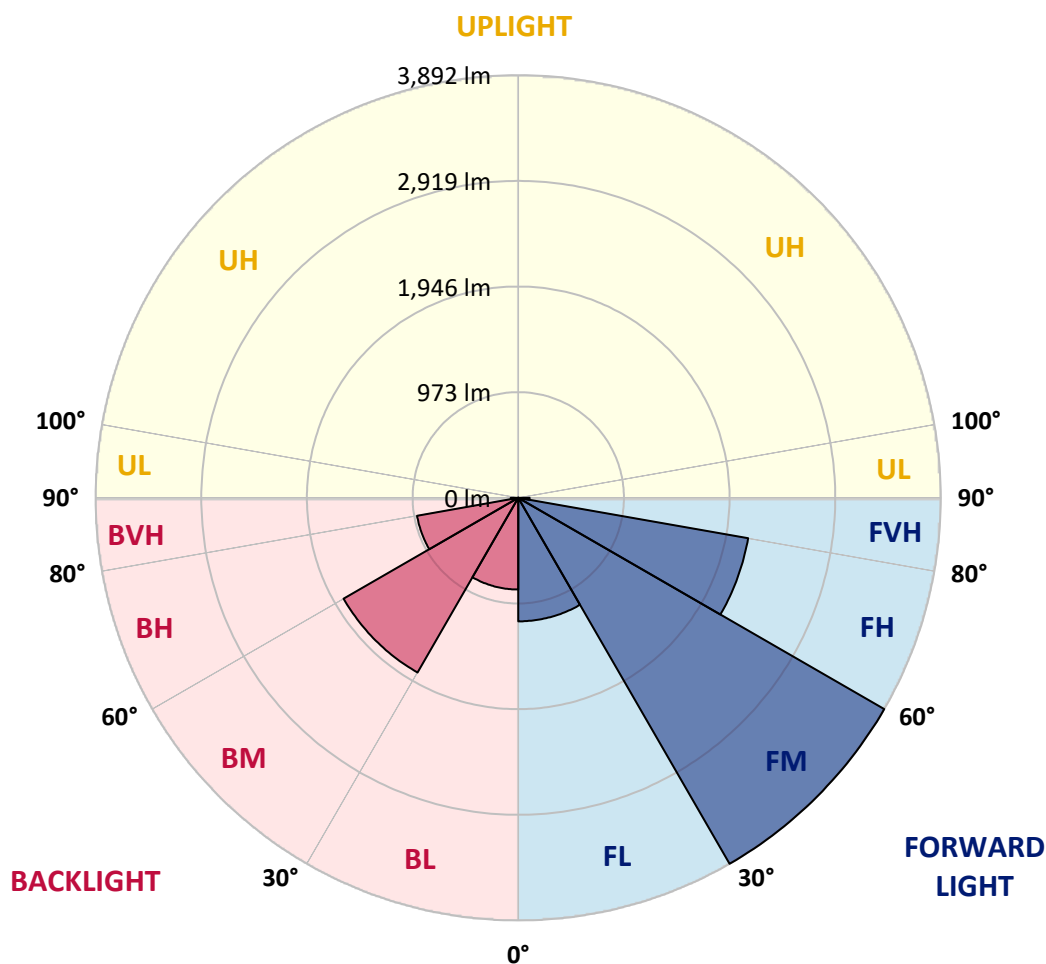
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1137.8	10.3			
FM	(30°-60°)	3892.4	35.4			
FH	(60°-80°)	2149.9	19.5			G2/5000
FVH	(80°-90°)	104.9	1.0			G2/225
BL	(0°-30°)	844.9	7.7	B2/1000		
BM	(30°-60°)	1857.9	16.9	B2/2500		
BH	(60°-80°)	946.6	8.6	B2/1000		G2/1000
BVH	(80°-90°)	68.5	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2222.6	2222.6	2222.6	2222.6	2222.6	2222.6	2222.6	2222.6	2222.6	2222.6	2222.6
2.5°	2290.0	2285.9	2269.6	2271.6	2271.6	2269.6	2245.1	2234.8	2234.8	2232.8	2210.3
5°	2371.7	2365.6	2347.2	2343.1	2334.9	2324.7	2285.9	2263.4	2253.2	2251.2	2220.5
7.5°	2467.7	2459.5	2437.1	2424.8	2404.4	2377.8	2328.8	2294.1	2269.6	2267.5	2224.6
10°	2563.7	2555.6	2529.0	2506.5	2477.9	2435.0	2371.7	2320.6	2281.8	2277.7	2226.7
12.5°	2678.1	2670.0	2637.3	2608.7	2565.8	2508.6	2424.8	2355.4	2302.3	2296.1	2232.8
15°	2798.7	2786.4	2753.7	2721.0	2667.9	2594.4	2494.3	2402.3	2334.9	2324.7	2251.2
17.5°	2898.8	2882.4	2855.9	2823.2	2763.9	2678.1	2563.7	2449.3	2365.6	2357.4	2269.6
20°	2984.6	2972.3	2943.7	2913.1	2849.7	2755.8	2629.1	2496.3	2394.2	2384.0	2283.9
22.5°	3066.3	3049.9	3033.6	3011.1	2941.7	2837.5	2704.7	2553.5	2430.9	2418.7	2302.3
25°	3160.2	3141.8	3135.7	3123.5	3041.8	2935.5	2796.6	2625.0	2482.0	2467.7	2334.9
27.5°	3276.7	3256.2	3244.0	3244.0	3145.9	3035.6	2894.7	2708.8	2541.3	2529.0	2375.8
30°	3399.2	3374.7	3356.3	3356.3	3246.0	3135.7	2990.7	2792.5	2608.7	2594.4	2428.9
32.5°	3507.5	3483.0	3462.6	3460.5	3346.1	3235.8	3090.8	2884.5	2690.4	2672.0	2494.3
35°	3591.3	3568.8	3550.4	3554.5	3446.2	3338.0	3203.1	3007.0	2792.5	2772.1	2580.1
37.5°	3642.3	3634.2	3624.0	3638.3	3538.2	3436.0	3319.6	3125.5	2909.0	2890.6	2686.3
40°	3668.9	3662.8	3703.6	3722.0	3615.8	3523.9	3436.0	3248.1	3035.6	3015.2	2808.9
42.5°	3707.7	3758.8	3775.1	3771.0	3673.0	3591.3	3542.2	3380.9	3184.7	3166.4	2956.0
45°	3568.8	3556.5	3646.4	3695.5	3677.1	3634.2	3642.3	3540.2	3358.4	3340.0	3125.5
47.5°	3382.9	3366.6	3417.6	3538.2	3609.7	3650.5	3732.2	3705.7	3558.6	3542.2	3323.7
50°	2990.7	3013.2	3203.1	3364.5	3505.5	3646.4	3807.8	3883.4	3779.2	3762.9	3536.1
52.5°	2555.6	2578.0	2776.2	3148.0	3378.8	3615.8	3863.0	4061.1	4018.2	3999.8	3762.9
55°	2238.9	2288.0	2512.7	2782.3	3199.0	3519.8	3895.6	4242.9	4275.6	4259.3	4010.0
57.5°	1924.3	1961.1	2130.7	2369.7	2953.9	3352.3	3893.6	4412.5	4545.3	4528.9	4261.3
60°	1554.6	1601.6	1736.4	1993.8	2627.1	3152.1	3836.4	4545.3	4804.7	4792.4	4504.4
62.5°	1301.3	1315.6	1411.6	1634.3	2206.2	2898.8	3707.7	4616.8	5039.6	5031.5	4723.0
65°	1048.0	1050.0	1137.8	1323.7	1799.7	2584.2	3489.1	4590.2	5217.3	5221.4	4880.3
67.5°	809.0	819.2	898.8	1039.8	1430.0	2175.6	3176.6	4410.4	5219.4	5229.6	4790.4
70°	559.7	567.9	688.4	825.3	1105.2	1734.3	2753.7	3934.5	4790.4	4798.6	4294.0
72.5°	394.3	398.3	527.0	659.8	864.1	1307.4	2077.5	3254.2	4083.6	4089.7	3611.7
75°	294.2	298.3	371.8	500.5	661.9	905.0	1419.8	2492.2	3262.4	3262.4	2851.8
77.5°	208.4	210.4	241.1	345.2	441.2	610.8	853.9	1632.2	2394.2	2398.3	2077.5
80°	141.0	143.0	157.3	232.9	275.8	330.9	463.7	855.9	1509.6	1515.8	1319.7
82.5°	73.5	77.6	87.8	118.5	138.9	183.9	239.0	435.1	835.5	851.9	792.6
85°	28.6	28.6	32.7	38.8	51.1	71.5	110.3	165.5	377.9	390.2	349.3
87.5°	10.2	10.2	12.3	12.3	14.3	16.3	18.4	24.5	42.9	42.9	40.9
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°	2222.6	2222.6	2222.6	2222.6	2222.6	2222.6	2222.6	2222.6	2222.6	2222.6	2222.6
2.5°	2202.2	2202.2	2191.9	2196.0	2194.0	2189.9	2185.8	2191.9	2185.8	2171.5	2169.5
5°	2206.2	2202.2	2185.8	2183.8	2177.6	2169.5	2159.3	2163.3	2153.1	2140.9	2138.8
7.5°	2208.3	2200.1	2177.6	2169.5	2157.2	2140.9	2124.5	2124.5	2110.2	2098.0	2095.9
10°	2204.2	2194.0	2163.3	2147.0	2124.5	2100.0	2077.5	2071.4	2055.1	2040.8	2040.8
12.5°	2206.2	2191.9	2153.1	2126.6	2095.9	2065.3	2036.7	2028.5	2014.2	1999.9	1997.9
15°	2218.5	2198.1	2149.0	2114.3	2069.4	2034.6	2004.0	1997.9	1985.6	1975.4	1975.4
17.5°	2230.8	2204.2	2142.9	2093.9	2038.7	1999.9	1971.3	1971.3	1963.1	1957.0	1957.0
20°	2236.9	2206.2	2130.7	2065.3	2002.0	1961.1	1934.5	1938.6	1936.6	1934.5	1934.5
22.5°	2251.2	2210.3	2120.4	2038.7	1963.1	1920.2	1895.7	1901.9	1899.8	1899.8	1901.9
25°	2273.7	2220.5	2112.3	2014.2	1926.4	1879.4	1852.8	1856.9	1856.9	1856.9	1856.9
27.5°	2304.3	2241.0	2110.2	1991.7	1889.6	1836.5	1803.8	1803.8	1795.6	1797.7	1799.7
30°	2351.3	2279.8	2114.3	1971.3	1850.8	1783.4	1744.6	1738.4	1736.4	1740.5	1742.5
32.5°	2408.5	2332.9	2138.8	1957.0	1809.9	1724.1	1675.1	1673.1	1666.9	1666.9	1666.9
35°	2480.0	2384.0	2161.3	1955.0	1769.1	1660.8	1607.7	1601.6	1587.3	1581.1	1581.1
37.5°	2571.9	2463.6	2187.9	1940.7	1734.3	1599.5	1536.2	1515.8	1499.4	1497.4	1497.4
40°	2684.3	2553.5	2226.7	1924.3	1697.6	1536.2	1452.4	1417.7	1419.8	1427.9	1427.9
42.5°	2817.0	2663.8	2275.7	1916.2	1644.5	1470.8	1354.4	1313.5	1327.8	1336.0	1338.0
45°	2972.3	2794.6	2330.9	1905.9	1595.4	1397.3	1250.2	1199.1	1205.3	1207.3	1209.3
47.5°	3152.1	2939.6	2388.0	1897.8	1540.3	1305.4	1135.8	1068.4	1066.3	1054.1	1058.2
50°	3340.0	3092.8	2447.3	1883.5	1472.9	1197.1	1015.3	935.6	919.3	900.9	902.9
52.5°	3540.2	3250.1	2502.4	1861.0	1389.1	1086.8	900.9	815.1	782.4	762.0	766.1
55°	3760.8	3411.5	2555.6	1826.3	1301.3	976.5	798.7	710.9	670.0	653.7	655.7
57.5°	3963.1	3566.8	2594.4	1783.4	1205.3	876.4	708.9	623.1	596.5	594.5	596.5
60°	4159.2	3697.5	2610.7	1724.1	1107.2	784.4	625.1	559.7	541.3	551.6	553.6
62.5°	4324.6	3781.2	2602.5	1644.5	1007.1	696.6	557.7	510.7	498.4	518.9	520.9
65°	4420.6	3807.8	2545.3	1530.1	898.8	610.8	494.4	443.3	437.2	449.4	455.5
67.5°	4294.0	3642.3	2390.1	1372.8	778.3	531.1	433.1	392.2	382.0	392.2	392.2
70°	3805.8	3156.1	2022.4	1123.5	645.5	453.5	375.9	347.3	339.1	347.3	345.2
72.5°	3170.4	2625.0	1593.4	876.4	508.7	382.0	326.9	300.3	292.1	284.0	279.9
75°	2459.5	1993.8	1156.2	643.5	384.0	306.4	273.7	249.2	228.8	237.0	232.9
77.5°	1801.8	1399.3	819.2	445.3	275.8	237.0	214.5	196.1	181.8	198.2	196.1
80°	1160.3	905.0	547.5	298.3	190.0	165.5	157.3	147.1	161.4	210.4	214.5
82.5°	708.9	574.0	326.9	194.1	124.6	110.3	102.1	102.1	165.5	181.8	183.9
85°	316.6	304.4	177.7	100.1	69.5	63.3	57.2	73.5	67.4	49.0	51.1
87.5°	51.1	53.1	38.8	34.7	26.6	26.6	20.4	14.3	10.2	6.1	6.1
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)