Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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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: P836813

Luminaire Tested: **ARCH3-80-722-U-T2U**

Issue Date: 5/16/2024

Report Generated By 670246001

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Test Information

Test Method:	LM-79-08
Report Number:	P836813
	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:	ARCH3-80-722-U-T2U
Description:	ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
	(1) 70 CRI, 2200K, 650mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11543 lumens
Efficiency:	N/A
Efficacy:	140.9 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):	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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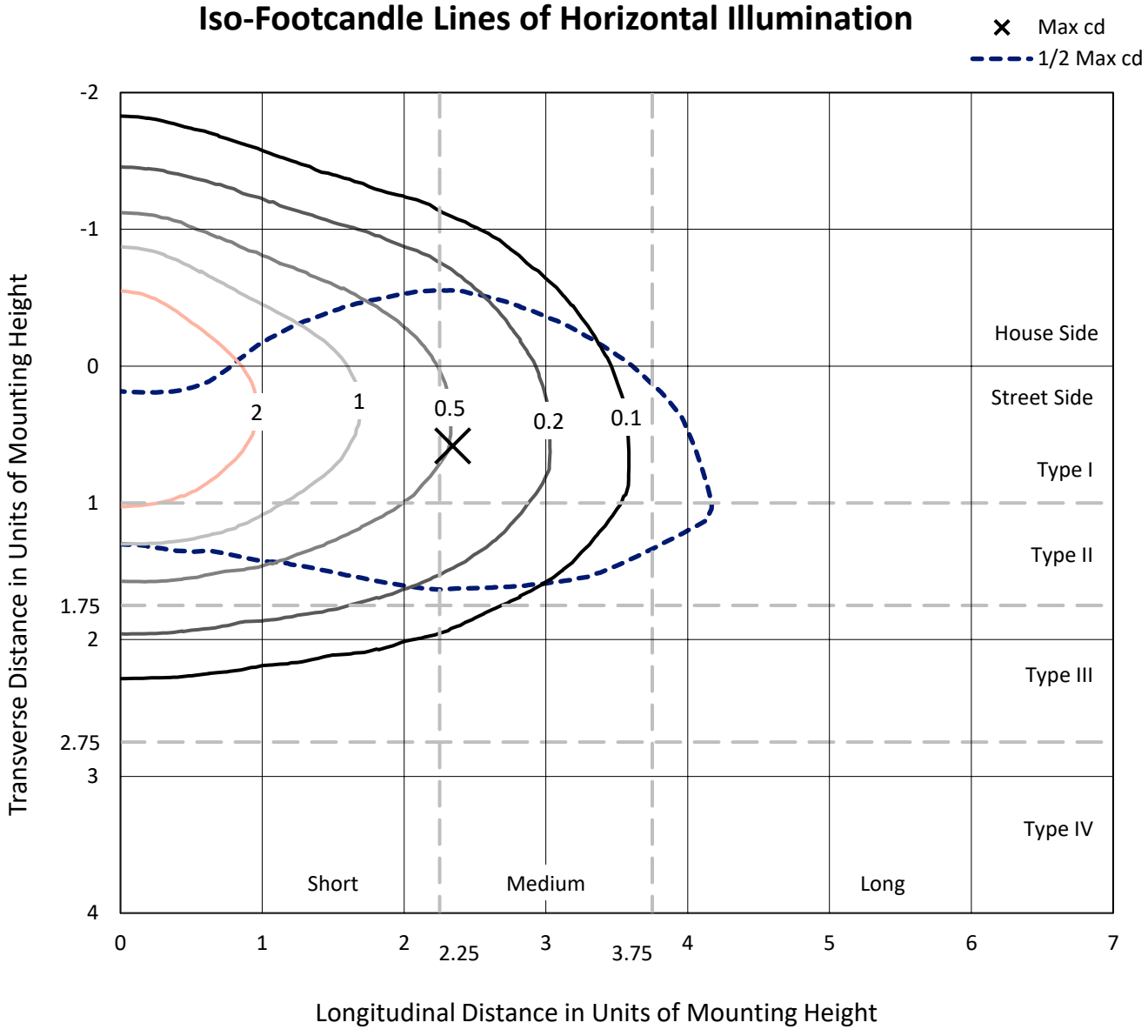
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
Type II - Medium - N/A

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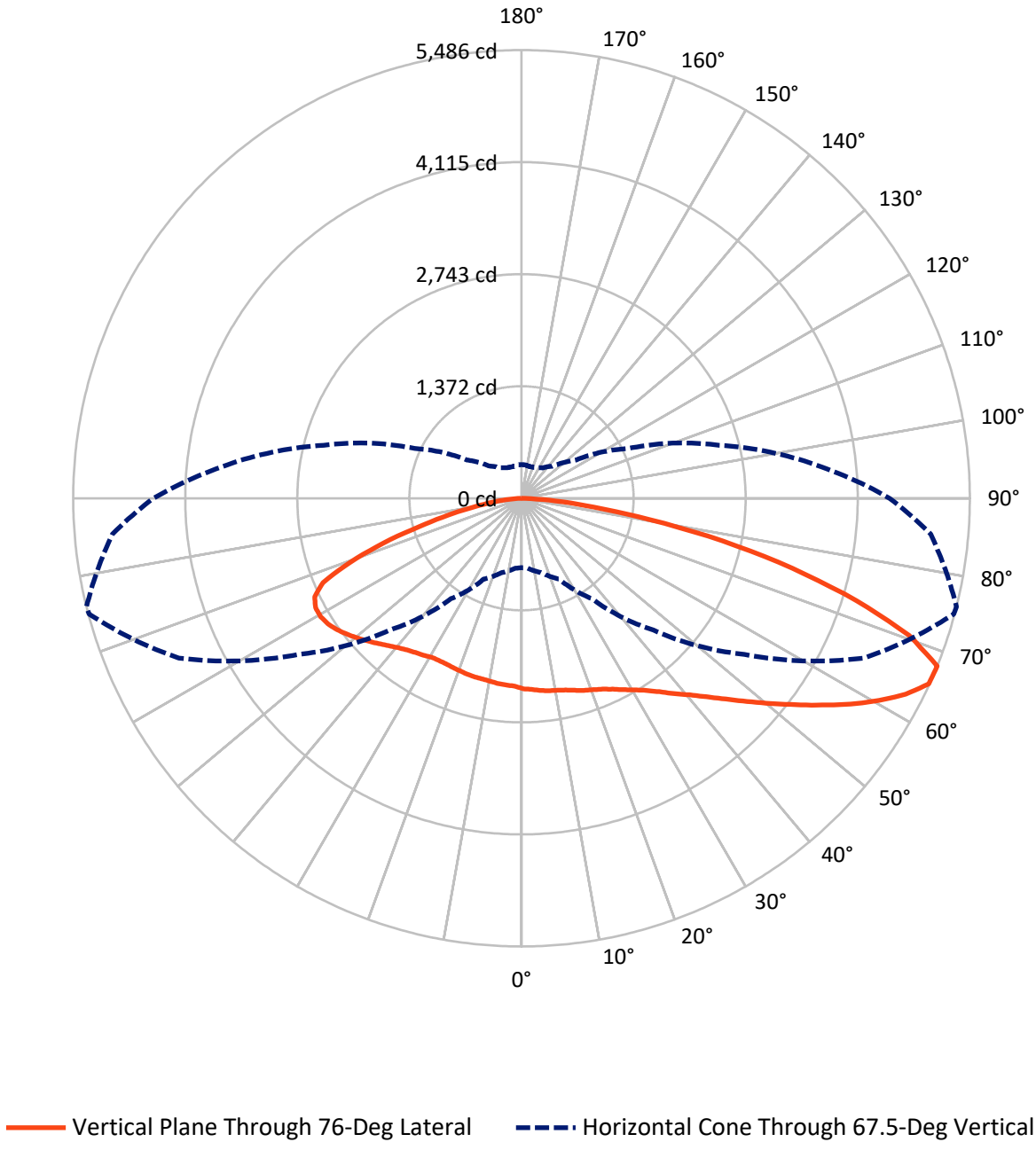
Luminous Intensity Polar Plot



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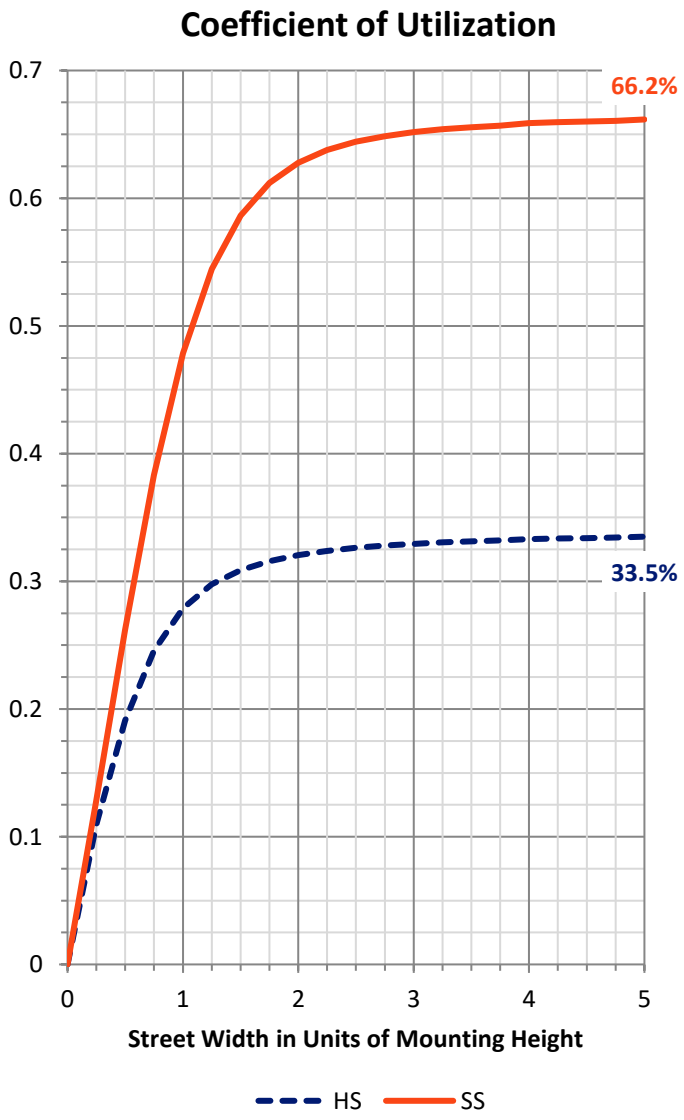
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3900.4	0.0	3900.4
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	7642.6	0.0	7642.6
	% Fixture	66.2	0.0	66.2
Total	Lumens	11543.0	0.0	11543.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.8	1.9
10°-20°	687.4	6.0
20°-30°	1167.9	10.1
30°-40°	1661.7	14.4
40°-50°	2098.7	18.2
50°-60°	2272.2	19.7
60°-70°	2113.4	18.3
70°-80°	1135.1	9.8
80°-90°	181.9	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°	11543.0	100.0
0°-180°	11543.0	100.0



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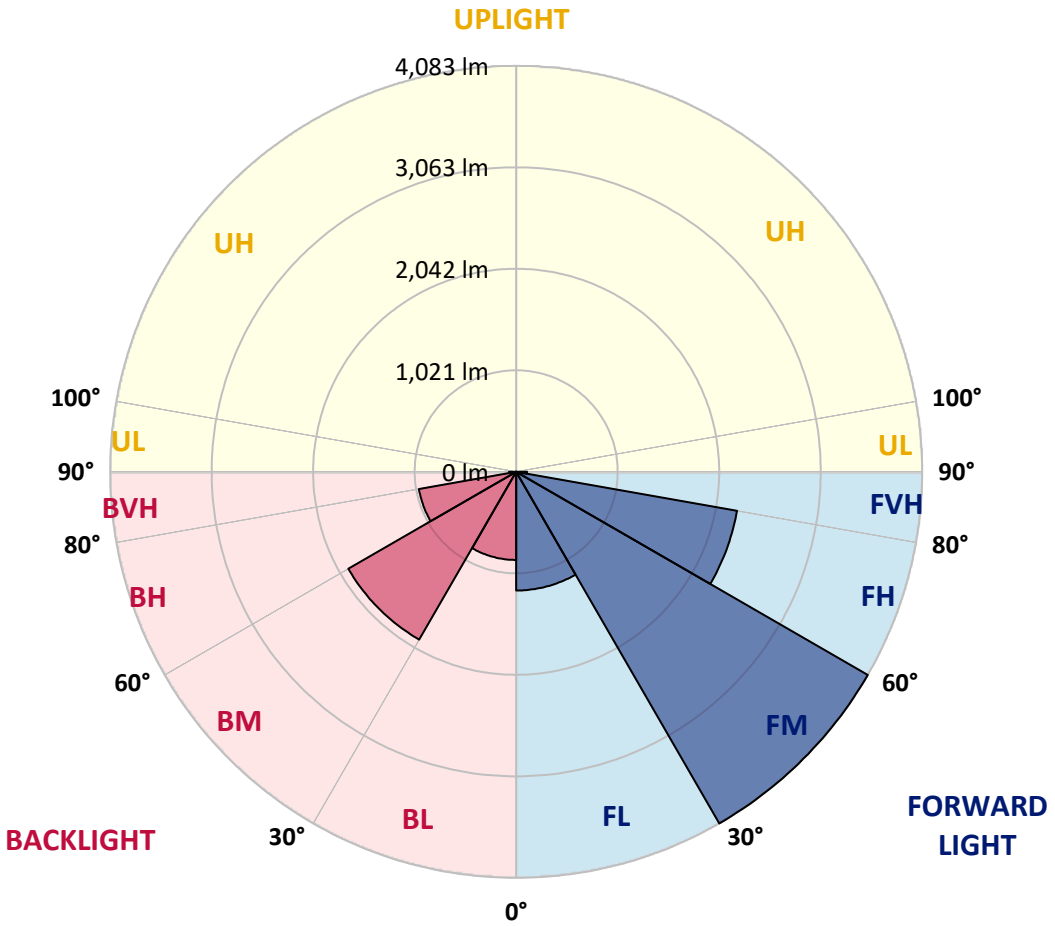
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1193.7	10.3			
FM	(30°-60°)	4083.5	35.4			
FH	(60°-80°)	2255.4	19.5			G2/5000
FVH	(80°-90°)	110.0	1.0			G2/225
BL	(0°-30°)	886.4	7.7	B2/1000		
BM	(30°-60°)	1949.1	16.9	B2/2500		
BH	(60°-80°)	993.1	8.6	B2/1000		G2/1000
BVH	(80°-90°)	71.9	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°	2331.7	2331.7	2331.7	2331.7	2331.7	2331.7	2331.7	2331.7	2331.7	*2331.7*	2331.7
2.5°	2402.4	2398.1	2381.0	2383.1	2383.1	2381.0	2355.2	2344.5	2344.5	*2342.4*	2318.8
5°	2488.1	2481.7	2462.4	2458.1	2449.5	2438.8	2398.1	2374.5	2363.8	*2361.7*	2329.5
7.5°	2588.8	2580.3	2556.7	2543.8	2522.4	2494.5	2443.1	2406.7	2381.0	*2378.8*	2333.8
10°	2689.6	2681.0	2653.1	2629.5	2599.5	2554.5	2488.1	2434.5	2393.8	*2389.5*	2335.9
12.5°	2809.6	2801.0	2766.7	2736.7	2691.7	2631.7	2543.8	2471.0	2415.2	*2408.8*	2342.4
15°	2936.0	2923.1	2888.9	2854.6	2798.8	2721.7	2616.7	2520.3	2449.5	*2438.8*	2361.7
17.5°	3041.0	3023.9	2996.0	2961.7	2899.6	2809.6	2689.6	2569.5	2481.7	*2473.1*	2381.0
20°	3131.0	3118.2	3088.2	3056.0	2989.6	2891.0	2758.1	2618.8	2511.7	*2501.0*	2396.0
22.5°	3216.7	3199.6	3182.5	3158.9	3086.0	2976.7	2837.4	2678.8	2550.3	*2537.4*	2415.2
25°	3315.3	3296.0	3289.6	3276.8	3191.0	3079.6	2933.9	2753.8	2603.8	*2588.8*	2449.5
27.5°	3437.5	3416.1	3403.2	3403.2	3300.3	3184.6	3036.7	2841.7	2666.0	*2653.1*	2492.4
30°	3566.1	3540.4	3521.1	3521.1	3405.3	3289.6	3137.5	2929.6	2736.7	*2721.7*	2548.1
32.5°	3679.7	3653.9	3632.5	3630.4	3510.3	3394.6	3242.5	3026.0	2822.4	*2803.1*	2616.7
35°	3767.5	3743.9	3724.7	3728.9	3615.4	3501.8	3360.3	3154.6	2929.6	*2908.1*	2706.7
37.5°	3821.1	3812.5	3801.8	3816.8	3711.8	3604.6	3482.5	3278.9	3051.7	*3032.4*	2818.1
40°	3849.0	3842.5	3885.4	3904.7	3793.2	3696.8	3604.6	3407.5	3184.6	*3163.2*	2946.7
42.5°	3889.7	3943.2	3960.4	3956.1	3853.2	3767.5	3716.1	3546.8	3341.0	*3321.8*	3101.0
45°	3743.9	3731.1	3825.4	3876.8	3857.5	3812.5	3821.1	3713.9	3523.2	*3503.9*	3278.9
47.5°	3548.9	3531.8	3585.4	3711.8	3786.8	3829.7	3915.4	3887.5	3733.2	*3716.1*	3486.8
50°	3137.5	3161.0	3360.3	3529.6	3677.5	3825.4	3994.7	4074.0	3964.7	*3947.5*	3709.7
52.5°	2681.0	2704.6	2912.4	3302.5	3544.6	3793.2	4052.5	4260.4	4215.4	*4196.1*	3947.5
55°	2348.8	2400.2	2636.0	2918.9	3356.0	3692.5	4086.8	4451.2	4485.4	*4468.3*	4206.8
57.5°	2018.8	2057.3	2235.2	2486.0	3098.9	3516.8	4084.7	4629.0	4768.3	*4751.2*	4470.4
60°	1630.9	1680.2	1821.6	2091.6	2756.0	3306.8	4024.7	4768.3	5040.5	*5027.6*	4725.5
62.5°	1365.1	1380.1	1480.9	1714.5	2314.5	3041.0	3889.7	4843.3	5287.0	*5278.4*	4954.8
65°	1099.4	1101.5	1193.7	1388.7	1888.0	2711.0	3660.4	4815.5	5473.4	*5477.7*	5119.8
67.5°	*848.7*	*859.4*	*943.0*	*1090.8*	*1500.1*	*2282.4*	*3332.5*	*4626.9*	*5475.5*	*5486.3*	*5025.5*
70°	587.2	595.8	722.2	865.8	1159.4	1819.5	2888.9	4127.6	5025.5	*5034.1*	4504.7
72.5°	413.6	417.9	552.9	692.2	906.5	1371.6	2179.5	3413.9	4284.0	*4290.4*	3788.9
75°	308.6	312.9	390.0	525.1	694.4	949.4	1489.4	2614.5	3422.5	*3422.5*	2991.7
77.5°	218.6	220.7	252.9	362.2	462.9	640.8	895.8	1712.3	2511.7	*2516.0*	2179.5
80°	147.9	150.0	165.0	244.3	289.3	347.2	486.5	897.9	1583.7	*1590.2*	1384.4
82.5°	77.2	81.4	92.2	124.3	145.7	192.9	250.7	456.5	876.5	*893.7*	831.5
85°	30.0	30.0	34.3	40.7	53.6	75.0	115.7	173.6	396.5	*409.3*	366.5
87.5°	10.7	10.7	12.9	12.9	15.0	17.1	19.3	25.7	45.0	*45.0*	42.9
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°	2331.7	2331.7	2331.7	2331.7	2331.7	2331.7	2331.7	2331.7	2331.7	2331.7	2331.7
2.5°	2310.2	2310.2	2299.5	2303.8	2301.7	2297.4	2293.1	2299.5	2293.1	2278.1	2275.9
5°	2314.5	2310.2	2293.1	2290.9	2284.5	2275.9	2265.2	2269.5	2258.8	2245.9	2243.8
7.5°	2316.7	2308.1	2284.5	2275.9	2263.1	2245.9	2228.8	2228.8	2213.8	2200.9	2198.8
10°	2312.4	2301.7	2269.5	2252.4	2228.8	2203.1	2179.5	2173.1	2155.9	2140.9	2140.9
12.5°	2314.5	2299.5	2258.8	2230.9	2198.8	2166.6	2136.6	2128.1	2113.1	2098.1	2095.9
15°	2327.4	2305.9	2254.5	2218.1	2170.9	2134.5	2102.4	2095.9	2083.1	2072.3	2072.3
17.5°	2340.2	2312.4	2248.1	2196.6	2138.8	2098.1	2068.1	2068.1	2059.5	2053.1	2053.1
20°	2346.7	2314.5	2235.2	2166.6	2100.2	2057.3	2029.5	2033.8	2031.6	2029.5	2029.5
22.5°	2361.7	2318.8	2224.5	2138.8	2059.5	2014.5	1988.8	1995.2	1993.1	1993.1	1995.2
25°	2385.2	2329.5	2215.9	2113.1	2020.9	1971.6	1943.8	1948.1	1948.1	1948.1	1948.1
27.5°	2417.4	2350.9	2213.8	2089.5	1982.3	1926.6	1892.3	1892.3	1883.8	1885.9	1888.0
30°	2466.7	2391.7	2218.1	2068.1	1941.6	1870.9	1830.2	1823.8	1821.6	1825.9	1828.0
32.5°	2526.7	2447.4	2243.8	2053.1	1898.8	1808.8	1757.3	1755.2	1748.7	1748.7	1748.7
35°	2601.7	2501.0	2267.4	2050.9	1855.9	1742.3	1686.6	1680.2	1665.2	1658.7	1658.7
37.5°	2698.1	2584.5	2295.2	2035.9	1819.5	1678.0	1611.6	1590.2	1573.0	1570.9	1570.9
40°	2816.0	2678.8	2335.9	2018.8	1780.9	1611.6	1523.7	1487.3	1489.4	1498.0	1498.0
42.5°	2955.3	2794.6	2387.4	2010.2	1725.2	1543.0	1420.9	1378.0	1393.0	1401.6	1403.7
45°	3118.2	2931.7	2445.2	1999.5	1673.7	1465.9	1311.6	1258.0	1264.4	1266.6	1268.7
47.5°	3306.8	3083.9	2505.2	1990.9	1615.9	1369.4	1191.5	1120.8	1118.7	1105.8	1110.1
50°	3503.9	3244.6	2567.4	1975.9	1545.2	1255.8	1065.1	981.5	964.4	945.1	947.2
52.5°	3713.9	3409.6	2625.3	1952.3	1457.3	1140.1	945.1	855.1	820.8	799.4	803.7
55°	3945.4	3578.9	2681.0	1915.9	1365.1	1024.4	837.9	745.8	702.9	685.8	687.9
57.5°	4157.6	3741.8	2721.7	1870.9	1264.4	919.4	743.6	653.6	625.8	623.6	625.8
60°	4363.3	3879.0	2738.8	1808.8	1161.5	822.9	655.8	587.2	567.9	578.6	580.8
62.5°	4536.9	3966.8	2730.3	1725.2	1056.5	730.8	585.1	535.8	522.9	544.3	546.5
65°	4637.6	3994.7	2670.3	1605.2	943.0	640.8	518.6	465.0	458.6	471.5	477.9
67.5°	*4504.7*	*3821.1*	*2507.4*	*1440.1*	*816.5*	*557.2*	*454.3*	*411.5*	*400.8*	*411.5*	*411.5*
70°	3992.5	3311.0	2121.6	1178.7	677.2	475.8	394.3	364.3	355.7	364.3	362.2
72.5°	3326.0	2753.8	1671.6	919.4	533.6	400.8	342.9	315.0	306.5	297.9	293.6
75°	2580.3	2091.6	1213.0	675.1	402.9	321.5	287.2	261.5	240.0	248.6	244.3
77.5°	1890.2	1468.0	859.4	467.2	289.3	248.6	225.0	205.7	190.7	207.9	205.7
80°	1217.3	949.4	574.3	312.9	199.3	173.6	165.0	154.3	169.3	220.7	225.0
82.5°	743.6	602.2	342.9	203.6	130.7	115.7	107.2	107.2	173.6	190.7	192.9
85°	332.2	319.3	186.4	105.0	72.9	66.4	60.0	77.2	70.7	51.4	53.6
87.5°	53.6	55.7	40.7	36.4	27.9	27.9	21.4	15.0	10.7	6.4	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

(END OF REPORT)