

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: P1211719

Luminaire Tested: **ARCH4-90-740-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211719
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-90-740-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 765mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

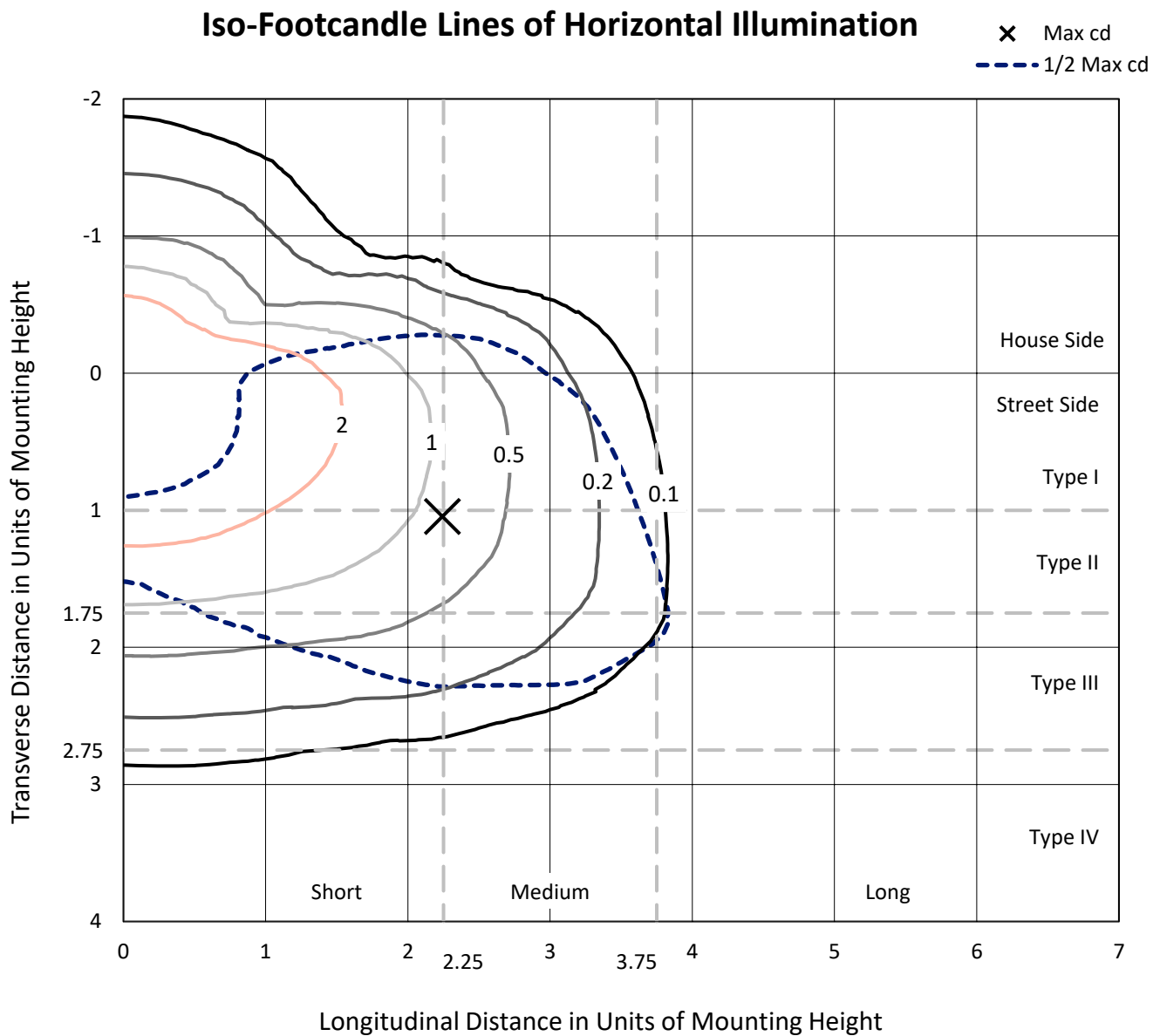
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16263 lumens
Efficiency: N/A
Efficacy: 174.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 93.1
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



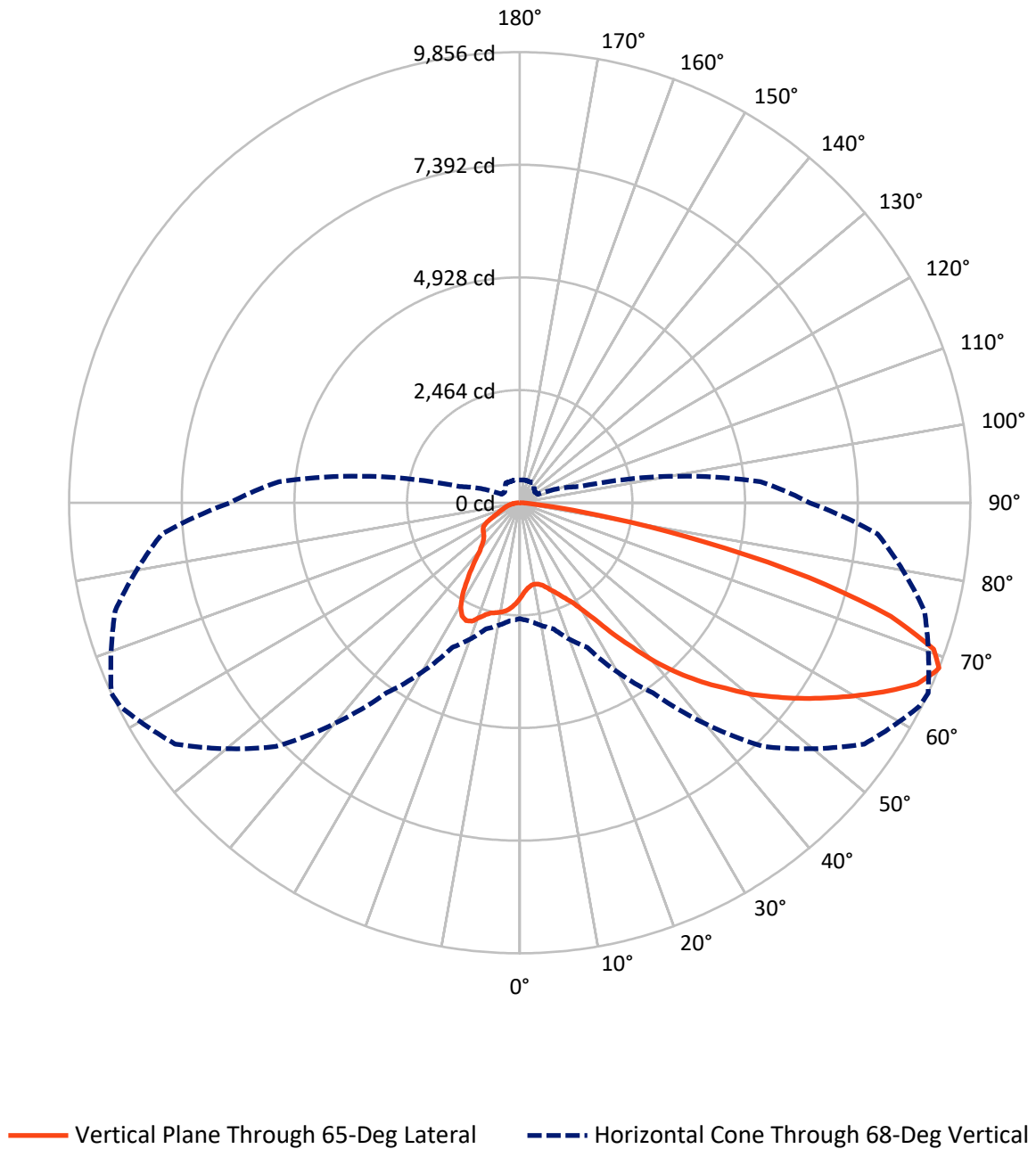
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Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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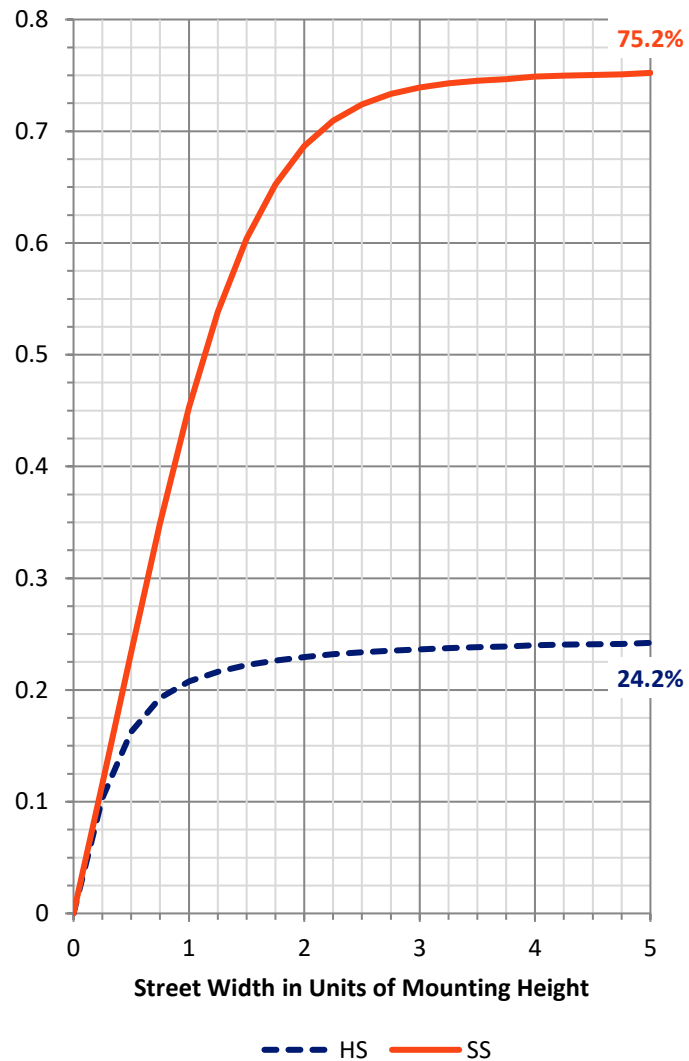
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3987.2	0.0	3987.2
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	12275.8	0.0	12275.8
	% Fixture	75.5	0.0	75.5
Total	Lumens	16263.0	0.0	16263.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.6	1.2
10°-20°	646.7	4.0
20°-30°	1170.5	7.2
30°-40°	1841.2	11.3
40°-50°	2742.3	16.9
50°-60°	3597.4	22.1
60°-70°	3934.0	24.2
70°-80°	1946.6	12.0
80°-90°	185.7	1.1
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°	16263.0	100.0
0°-180°	16263.0	100.0

Coefficient of Utilization



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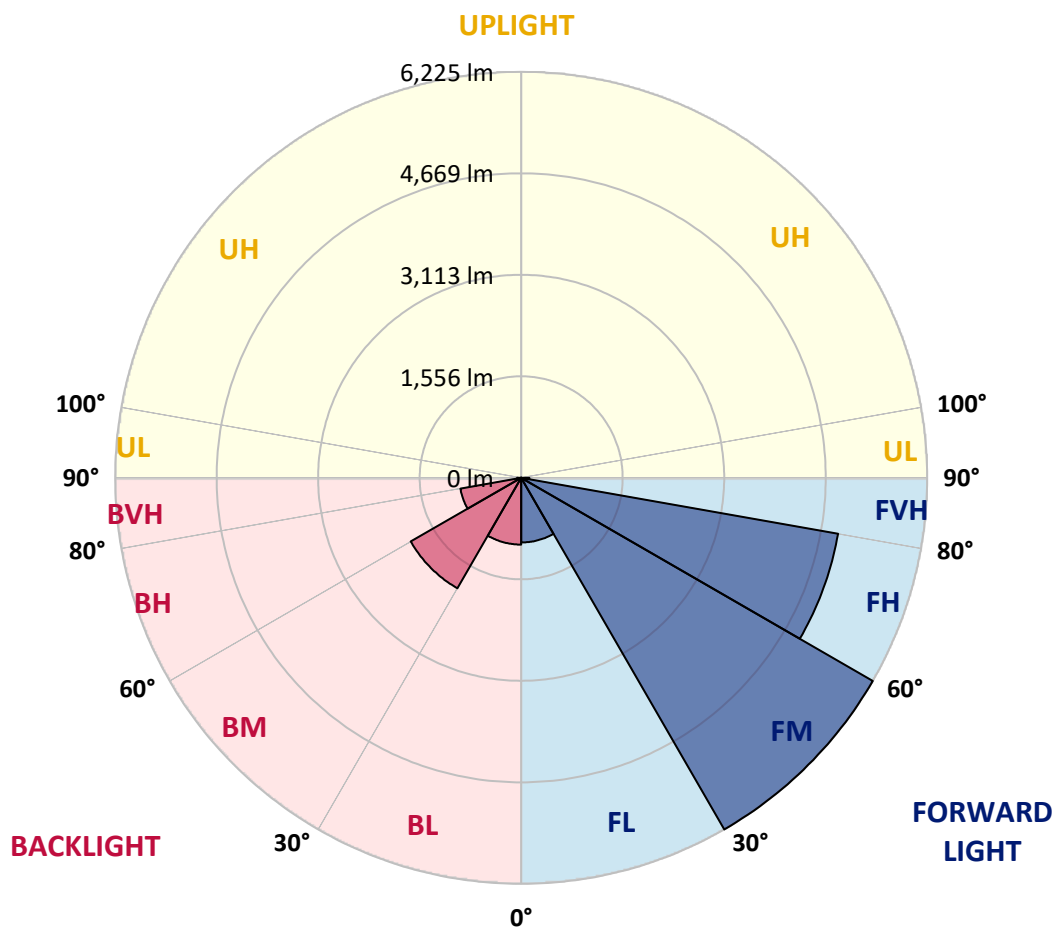
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	991.4	6.1			
FM	(30°-60°)	6225.3	38.3			
FH	(60°-80°)	4934.2	30.3			G2/5000
FVH	(80°-90°)	124.9	0.8			G2/225
BL	(0°-30°)	1024.3	6.3	B3/2500		
BM	(30°-60°)	1955.7	12.0	B2/2500		
BH	(60°-80°)	946.4	5.8	B2/1000		G2/1000
BVH	(80°-90°)	60.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2
2.5°	1814.0	1809.8	1820.3	1830.8	1853.8	1881.1	1918.8	1950.3	1954.5	2013.2	2059.3
5°	1707.0	1700.7	1711.2	1723.8	1734.3	1767.8	1807.7	1853.8	1872.7	1958.7	2057.2
7.5°	1717.5	1715.4	1719.6	1715.4	1715.4	1730.1	1757.4	1803.5	1824.5	1927.2	2067.7
10°	1778.3	1782.5	1784.6	1772.0	1759.5	1753.2	1761.6	1793.0	1807.7	1929.3	2113.9
12.5°	1879.0	1885.3	1887.4	1864.3	1847.5	1820.3	1805.6	1818.2	1828.7	1950.3	2178.9
15°	2015.3	2019.5	2004.8	1990.1	1948.2	1914.6	1879.0	1868.5	1872.7	1994.3	2252.3
17.5°	2174.7	2168.4	2168.4	2132.7	2078.2	2025.8	1967.1	1958.7	1958.7	2065.6	2357.1
20°	2348.7	2355.0	2336.2	2287.9	2233.4	2151.6	2092.9	2055.1	2059.3	2147.4	2485.0
22.5°	2600.4	2610.9	2560.5	2491.3	2407.5	2313.1	2229.2	2168.4	2170.5	2254.4	2617.2
25°	2870.9	2875.1	2843.7	2751.4	2638.1	2503.9	2392.8	2315.2	2313.1	2373.9	2787.0
27.5°	3147.7	3166.6	3103.7	3015.6	2910.8	2743.0	2596.2	2491.3	2474.6	2556.3	2998.8
30°	3432.9	3456.0	3395.2	3309.2	3179.2	3036.6	2862.5	2740.9	2730.4	2839.5	3281.9
32.5°	3720.2	3726.5	3678.3	3607.0	3489.6	3355.3	3214.8	3080.6	3070.1	3248.4	3648.9
35°	3955.1	3974.0	3940.4	3923.7	3837.7	3713.9	3577.6	3500.0	3527.3	3755.9	4125.0
37.5°	4238.2	4257.1	4219.3	4215.1	4187.9	4080.9	3986.6	3992.9	4020.1	4330.5	4626.2
40°	4647.1	4668.1	4571.7	4529.7	4529.7	4424.9	4393.4	4542.3	4577.9	4896.7	5148.3
42.5°	4993.2	5026.7	4970.1	4942.8	4861.0	4787.7	4825.4	5035.1	5095.9	5437.7	5603.4
45°	5160.9	5186.1	5253.2	5332.9	5253.2	5125.3	5267.9	5504.9	5590.8	5936.9	6058.5
47.5°	5251.1	5274.2	5351.8	5565.7	5620.2	5513.2	5714.6	6010.3	6069.0	6431.8	6492.6
50°	5263.7	5337.1	5437.7	5651.7	5901.2	5915.9	6163.3	6524.0	6593.2	6918.3	6874.3
52.5°	5160.9	5190.3	5397.9	5758.6	6035.4	6287.1	6652.0	7016.9	7067.2	7375.5	7211.9
55°	4993.2	5035.1	5242.7	5733.4	6165.4	6639.4	7149.0	7501.3	7557.9	7820.0	7524.3
57.5°	4842.2	4863.1	5085.4	5660.0	6295.5	6991.7	7591.5	8006.7	8044.4	8210.1	7755.0
60°	4674.4	4697.5	4919.8	5502.8	6391.9	7258.0	8052.8	8516.3	8549.8	8621.1	8023.5
62.5°	4240.3	4301.1	4580.0	5242.7	6366.8	7562.1	8545.6	9019.6	9061.5	8983.9	8235.3
65°	3443.4	3529.4	3871.2	4653.4	6131.9	7759.2	8948.3	9483.0	9554.3	9256.5	8291.9
67.5°	2673.8	2734.6	3009.3	3693.0	5307.7	7660.7	9208.3	9801.8	9822.8	9212.5	7977.3
68°	2535.4	2596.2	2858.3	3491.7	5079.1	7543.2	9202.0	9810.2	9856.3	9164.3	7855.7
70°	1939.8	2009.0	2258.6	2766.1	4093.5	6796.7	8818.3	9608.9	9602.6	8581.3	7100.7
72.5°	1212.1	1252.0	1423.9	1744.8	2707.3	5171.4	7484.5	8474.3	8491.1	6995.9	5446.1
75°	769.6	769.6	761.2	845.1	1388.3	2946.4	5563.6	6524.0	6536.6	4898.8	3432.9
77.5°	669.0	650.1	559.9	473.9	553.6	1145.0	3292.4	4213.0	4143.8	2638.1	1629.4
80°	564.1	532.7	459.3	381.7	356.5	358.6	1264.5	2139.0	2046.8	950.0	541.0
82.5°	406.8	379.6	346.0	299.9	274.7	213.9	264.2	618.6	604.0	274.7	176.2
85°	220.2	199.2	195.0	197.1	165.7	132.1	111.1	136.3	136.3	119.5	100.7
87.5°	77.6	56.6	67.1	75.5	65.0	54.5	44.0	52.4	54.5	52.4	48.2
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°	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2
2.5°	2086.6	2107.6	2157.9	2201.9	2233.4	2260.7	2275.3	2281.6	2296.3	2298.4	2294.2
5°	2103.4	2157.9	2233.4	2298.4	2334.1	2348.7	2352.9	2355.0	2348.7	2352.9	2348.7
7.5°	2147.4	2216.6	2323.6	2380.2	2386.5	2363.4	2365.5	2357.1	2365.5	2373.9	2373.9
10°	2214.5	2302.6	2403.3	2424.2	2397.0	2384.4	2409.6	2459.9	2476.7	2499.7	2499.7
12.5°	2302.6	2407.5	2478.8	2459.9	2434.7	2476.7	2550.1	2600.4	2617.2	2625.6	2619.3
15°	2403.3	2516.5	2552.2	2489.2	2535.4	2625.6	2650.7	2621.4	2579.4	2560.5	2571.0
17.5°	2531.2	2625.6	2604.6	2562.6	2667.5	2680.1	2598.3	2503.9	2436.8	2411.7	2428.4
20°	2665.4	2747.2	2650.7	2669.6	2734.6	2600.4	2445.2	2323.6	2264.9	2254.4	2271.1
22.5°	2808.0	2860.4	2696.9	2793.3	2696.9	2424.2	2237.6	2174.7	2160.0	2176.8	2191.5
25°	2969.5	2963.2	2776.5	2831.1	2556.3	2208.2	2097.1	2092.9	2092.9	2103.4	2124.3
27.5°	3151.9	3053.4	2856.2	2780.7	2313.1	2030.0	2009.0	2011.1	2004.8	2006.9	2017.4
30°	3363.7	3175.0	2944.3	2615.1	2040.5	1895.8	1887.4	1881.1	1866.4	1862.2	1866.4
32.5°	3630.1	3302.9	3034.5	2342.4	1801.4	1757.4	1753.2	1719.6	1684.0	1679.8	1694.4
35°	3967.7	3535.7	3080.6	2000.6	1604.3	1602.2	1587.5	1535.1	1488.9	1488.9	1478.4
37.5°	4353.6	3835.6	3099.5	1667.2	1440.7	1451.2	1409.2	1342.1	1306.5	1285.5	1291.8
40°	4747.8	4177.4	3097.4	1375.7	1298.1	1300.2	1268.7	1187.0	1098.9	1046.4	1059.0
42.5°	5127.4	4487.8	3042.9	1220.5	1182.8	1176.5	1151.3	1040.2	966.8	924.8	926.9
45°	5431.5	4808.6	2959.0	1128.2	1077.9	1088.4	1031.8	964.7	897.6	859.8	857.7
47.5°	5735.5	5051.9	2824.8	1071.6	1000.3	981.4	958.4	912.2	861.9	820.0	822.1
50°	6012.3	5259.5	2699.0	1033.9	929.0	880.8	885.0	857.7	813.7	775.9	773.8
52.5°	6207.4	5395.8	2629.7	1012.9	843.0	790.6	805.3	790.6	748.7	721.4	719.3
55°	6402.4	5500.7	2652.8	985.6	748.7	706.7	731.9	727.7	704.6	696.2	698.3
57.5°	6559.7	5580.3	2734.6	935.3	658.5	633.3	675.3	662.7	645.9	648.0	648.0
60°	6712.8	5683.1	2831.1	820.0	580.9	583.0	622.8	599.8	589.3	608.2	610.3
62.5°	6872.2	5794.3	2751.4	652.2	513.8	528.5	574.6	555.7	559.9	587.2	595.6
65°	6853.3	5783.8	2241.8	534.8	455.1	484.4	553.6	547.3	549.4	559.9	564.1
67.5°	6467.4	5414.7	1541.4	455.1	413.1	448.8	536.9	511.7	513.8	507.5	509.6
68°	6337.4	5284.7	1358.9	442.5	404.7	440.4	528.5	505.4	507.5	501.2	499.1
70°	5628.6	4525.5	859.8	390.1	375.4	417.3	486.5	478.1	476.0	471.8	471.8
72.5°	4290.6	3340.7	453.0	337.6	341.8	381.7	434.1	450.9	440.4	442.5	455.1
75°	2841.6	2009.0	314.6	289.4	299.9	327.1	385.9	419.4	408.9	415.2	408.9
77.5°	1503.6	1082.1	251.7	245.4	245.4	264.2	318.8	371.2	371.2	367.0	360.7
80°	492.8	381.7	201.3	192.9	197.1	207.6	255.8	304.1	310.4	302.0	297.8
82.5°	165.7	176.2	151.0	140.5	144.7	153.1	192.9	232.8	234.9	218.1	213.9
85°	102.8	117.4	94.4	92.3	92.3	94.4	117.4	127.9	117.4	104.9	109.0
87.5°	48.2	58.7	44.0	37.7	31.5	27.3	21.0	8.4	8.4	4.2	4.2
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)