

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: P836750

Luminaire Tested: **ARCH3-70-727-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836750
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: ARCH3-70-727-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11516 lumens
Efficiency: N/A
Efficacy: 157.5 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): 73.1
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



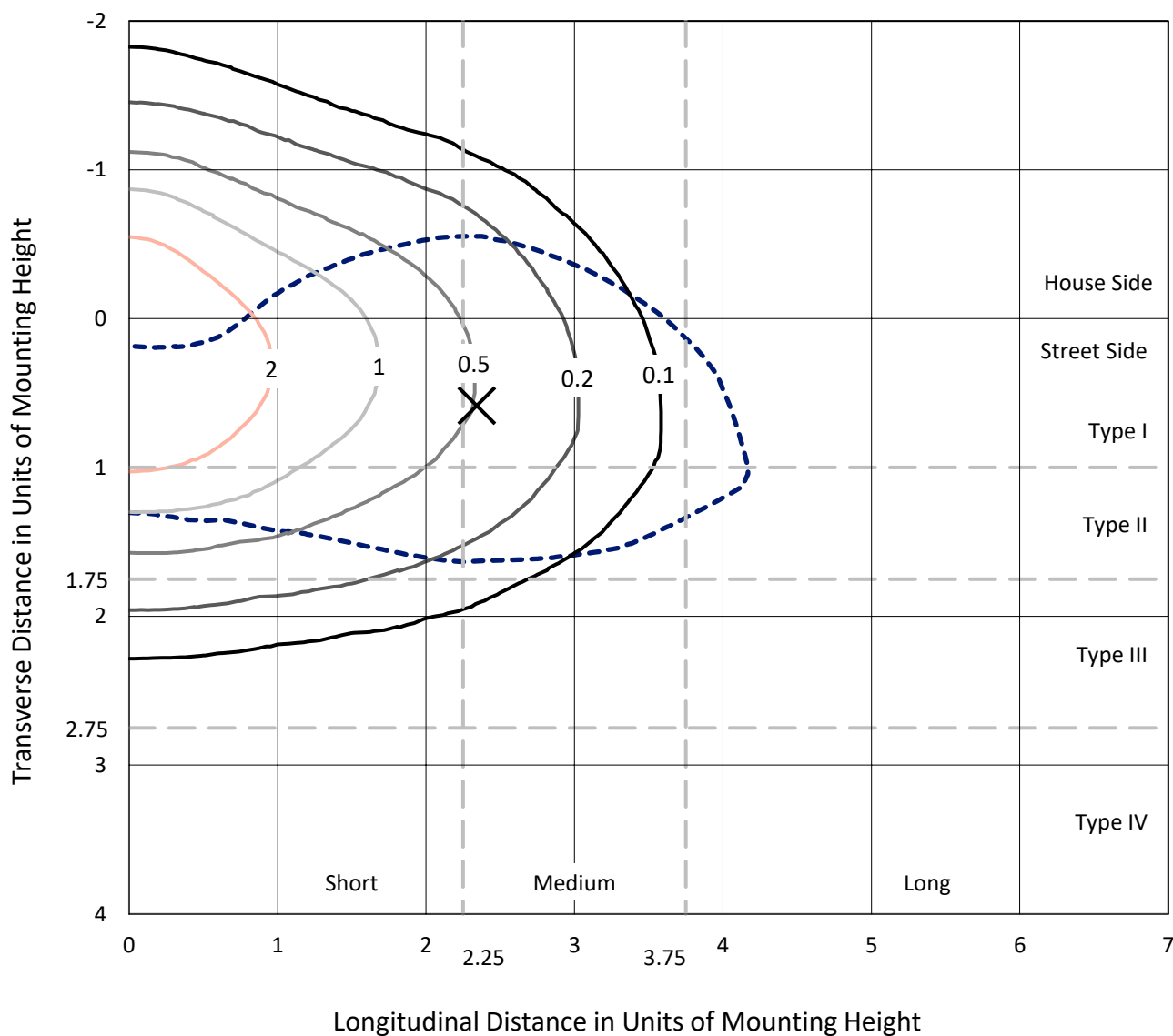
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

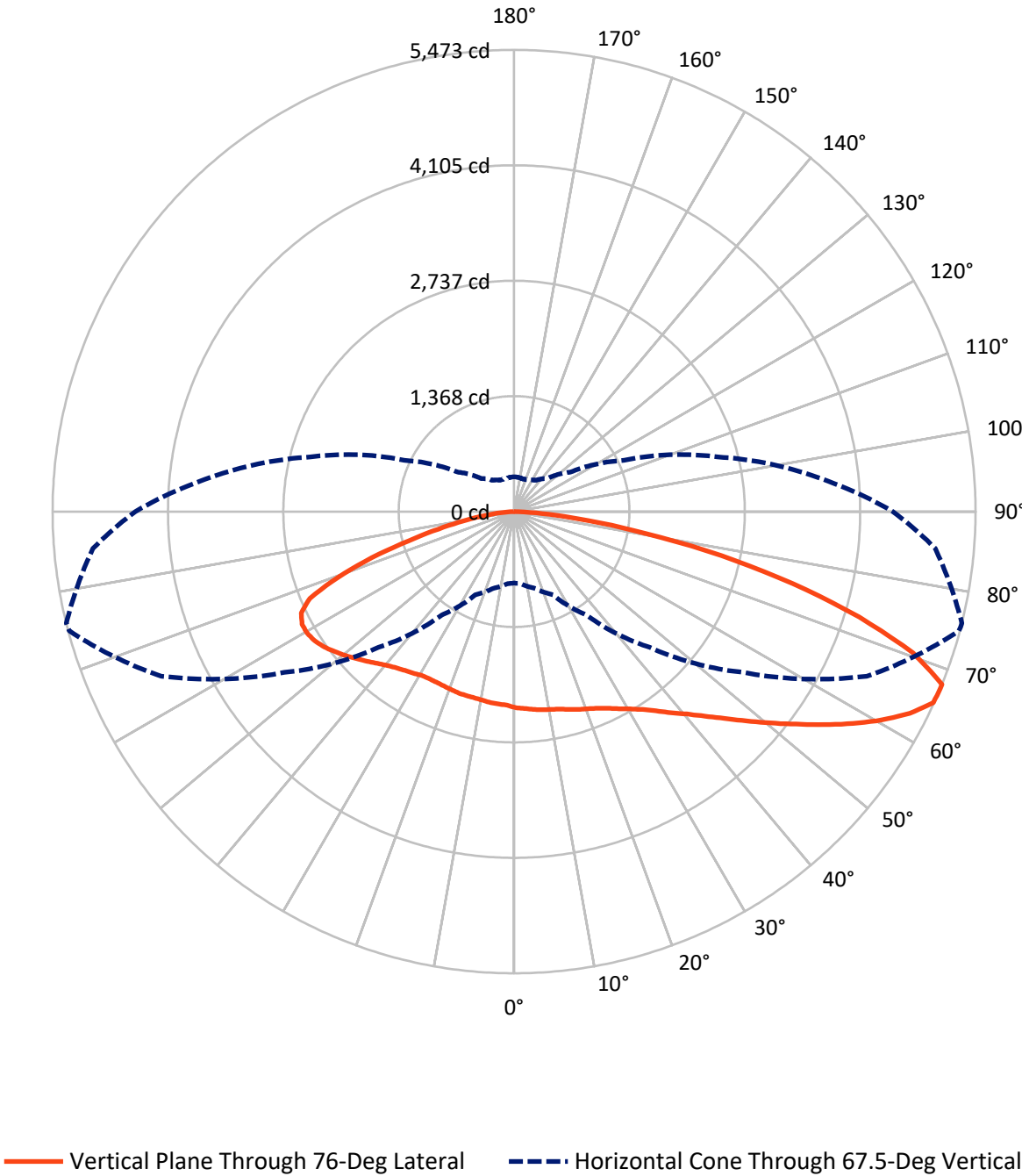
--- 1/2 Max cd



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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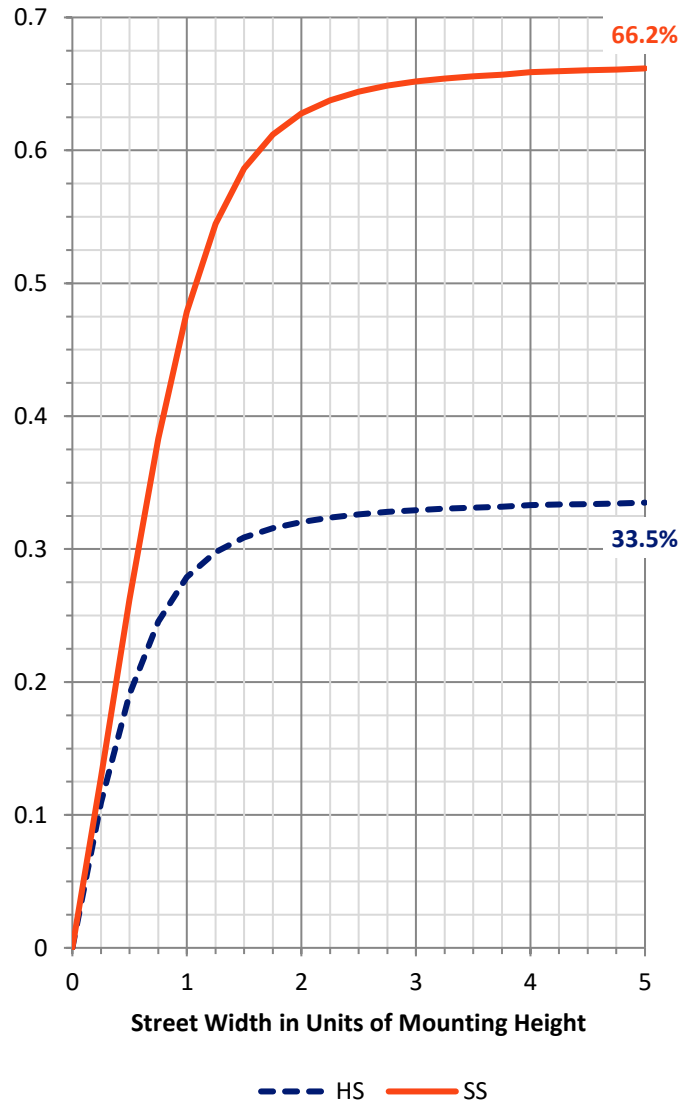
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3891.3	0.0	3891.3
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	7624.7	0.0	7624.7
	% Fixture	66.2	0.0	66.2
Total	Lumens	11516.0	0.0	11516.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.3	1.9
10°-20°	685.8	6.0
20°-30°	1165.1	10.1
30°-40°	1657.8	14.4
40°-50°	2093.8	18.2
50°-60°	2266.9	19.7
60°-70°	2108.5	18.3
70°-80°	1132.4	9.8
80°-90°	181.5	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°	11516.0	100.0
0°-180°	11516.0	100.0

Coefficient of Utilization



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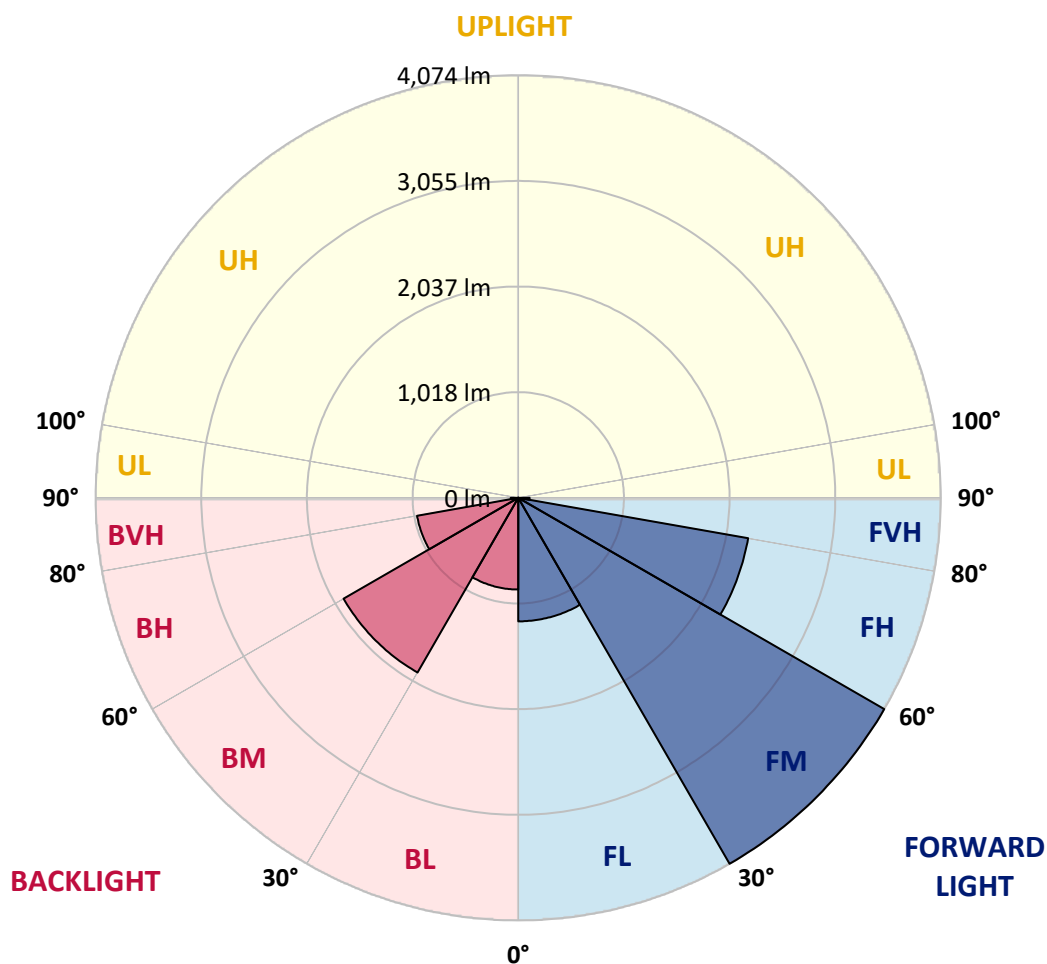
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1190.9	10.3			
FM	(30°-60°)	4073.9	35.4			
FH	(60°-80°)	2250.1	19.5			G2/5000
FVH	(80°-90°)	109.8	1.0			G2/225
BL	(0°-30°)	884.3	7.7	B2/1000		
BM	(30°-60°)	1944.5	16.9	B2/2500		
BH	(60°-80°)	990.8	8.6	B2/1000		G2/1000
BVH	(80°-90°)	71.7	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°	2326.2	2326.2	2326.2	2326.2	2326.2	2326.2	2326.2	2326.2	2326.2	2326.2	2326.2
2.5°	2396.8	2392.5	2375.4	2377.5	2377.5	2375.4	2349.7	2339.0	2339.0	2336.9	2313.4
5°	2482.3	2475.9	2456.6	2452.4	2443.8	2433.1	2392.5	2369.0	2358.3	2356.1	2324.1
7.5°	2582.8	2574.2	2550.7	2537.9	2516.5	2488.7	2437.4	2401.0	2375.4	2373.2	2328.3
10°	2683.3	2674.7	2646.9	2623.4	2593.5	2548.6	2482.3	2428.8	2388.2	2383.9	2330.5
12.5°	2803.0	2794.4	2760.2	2730.3	2685.4	2625.5	2537.9	2465.2	2409.6	2403.2	2336.9
15°	2929.1	2916.3	2882.1	2847.9	2792.3	2715.3	2610.6	2514.4	2443.8	2433.1	2356.1
17.5°	3033.9	3016.8	2989.0	2954.8	2892.8	2803.0	2683.3	2563.5	2475.9	2467.3	2375.4
20°	3123.7	3110.9	3080.9	3048.9	2982.6	2884.2	2751.7	2612.7	2505.8	2495.1	2390.3
22.5°	3209.2	3192.1	3175.0	3151.5	3078.8	2969.8	2830.8	2672.6	2544.3	2531.5	2409.6
25°	3307.6	3288.3	3281.9	3269.1	3183.6	3072.4	2927.0	2747.4	2597.7	2582.8	2443.8
27.5°	3429.4	3408.1	3395.2	3395.2	3292.6	3177.2	3029.6	2835.1	2659.7	2646.9	2486.6
30°	3557.7	3532.1	3512.8	3512.8	3397.4	3281.9	3130.1	2922.7	2730.3	2715.3	2542.2
32.5°	3671.0	3645.4	3624.0	3621.9	3502.1	3386.7	3234.9	3018.9	2815.8	2796.6	2610.6
35°	3758.7	3735.2	3715.9	3720.2	3606.9	3493.6	3352.5	3147.2	2922.7	2901.3	2700.4
37.5°	3812.2	3803.6	3792.9	3807.9	3703.1	3596.2	3474.3	3271.2	3044.6	3025.4	2811.5
40°	3840.0	3833.5	3876.3	3895.5	3784.4	3688.1	3596.2	3399.5	3177.2	3155.8	2939.8
42.5°	3880.6	3934.0	3951.1	3946.9	3844.2	3758.7	3707.4	3538.5	3333.2	3314.0	3093.8
45°	3735.2	3722.4	3816.4	3867.7	3848.5	3803.6	3812.2	3705.3	3515.0	3495.7	3271.2
47.5°	3540.6	3523.5	3577.0	3703.1	3777.9	3820.7	3906.2	3878.4	3724.5	3707.4	3478.6
50°	3130.1	3153.6	3352.5	3521.4	3668.9	3816.4	3985.3	4064.4	3955.4	3938.3	3701.0
52.5°	2674.7	2698.2	2905.6	3294.7	3536.3	3784.4	4043.1	4250.5	4205.6	4186.3	3938.3
55°	2343.3	2394.6	2629.8	2912.0	3348.2	3683.9	4077.3	4440.7	4475.0	4457.8	4197.0
57.5°	2014.1	2052.5	2230.0	2480.1	3091.6	3508.6	4075.1	4618.2	4757.2	4740.1	4460.0
60°	1627.1	1676.2	1817.3	2086.7	2749.5	3299.0	4015.3	4757.2	5028.7	5015.9	4714.4
62.5°	1361.9	1376.9	1477.4	1710.4	2309.1	3033.9	3880.6	4832.0	5274.6	5266.0	4943.2
65°	1096.8	1099.0	1190.9	1385.5	1883.6	2704.6	3651.8	4804.2	5460.6	5464.9	5107.8
67.5°	846.7	857.4	940.7	1088.3	1496.6	2277.0	3324.7	4616.1	5462.7	5473.4	5013.7
70°	585.8	594.4	720.5	863.8	1156.7	1815.2	2882.1	4117.9	5013.7	5022.3	4494.2
72.5°	412.6	416.9	551.6	690.6	904.4	1368.4	2174.4	3405.9	4274.0	4280.4	3780.1
75°	307.9	312.2	389.1	523.8	692.7	947.2	1485.9	2608.4	3414.5	3414.5	2984.7
77.5°	218.1	220.2	252.3	361.3	461.8	639.3	893.7	1708.3	2505.8	2510.1	2174.4
80°	147.5	149.7	164.6	243.7	288.6	346.4	485.3	895.8	1580.0	1586.4	1381.2
82.5°	77.0	81.2	91.9	124.0	145.4	192.4	250.2	455.4	874.5	891.6	829.6
85°	29.9	29.9	34.2	40.6	53.5	74.8	115.5	173.2	395.5	408.4	365.6
87.5°	10.7	10.7	12.8	12.8	15.0	17.1	19.2	25.7	44.9	44.9	42.8
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°	2326.2	2326.2	2326.2	2326.2	2326.2	2326.2	2326.2	2326.2	2326.2	2326.2	2326.2
2.5°	2304.8	2304.8	2294.1	2298.4	2296.3	2292.0	2287.7	2294.1	2287.7	2272.8	2270.6
5°	2309.1	2304.8	2287.7	2285.6	2279.2	2270.6	2259.9	2264.2	2253.5	2240.7	2238.5
7.5°	2311.2	2302.7	2279.2	2270.6	2257.8	2240.7	2223.6	2223.6	2208.6	2195.8	2193.6
10°	2307.0	2296.3	2264.2	2247.1	2223.6	2197.9	2174.4	2168.0	2150.9	2135.9	2135.9
12.5°	2309.1	2294.1	2253.5	2225.7	2193.6	2161.6	2131.6	2123.1	2108.1	2093.2	2091.0
15°	2321.9	2300.5	2249.2	2212.9	2165.9	2129.5	2097.4	2091.0	2078.2	2067.5	2067.5
17.5°	2334.8	2307.0	2242.8	2191.5	2133.8	2093.2	2063.2	2063.2	2054.7	2048.3	2048.3
20°	2341.2	2309.1	2230.0	2161.6	2095.3	2052.5	2024.7	2029.0	2026.9	2024.7	2024.7
22.5°	2356.1	2313.4	2219.3	2133.8	2054.7	2009.8	1984.1	1990.5	1988.4	1988.4	1990.5
25°	2379.7	2324.1	2210.8	2108.1	2016.2	1967.0	1939.2	1943.5	1943.5	1943.5	1943.5
27.5°	2411.7	2345.4	2208.6	2084.6	1977.7	1922.1	1887.9	1887.9	1879.4	1881.5	1883.6
30°	2460.9	2386.1	2212.9	2063.2	1937.1	1866.5	1825.9	1819.5	1817.3	1821.6	1823.8
32.5°	2520.8	2441.7	2238.5	2048.3	1894.3	1804.5	1753.2	1751.1	1744.7	1744.7	1744.7
35°	2595.6	2495.1	2262.1	2046.1	1851.6	1738.2	1682.7	1676.2	1661.3	1654.9	1654.9
37.5°	2691.8	2578.5	2289.9	2031.2	1815.2	1674.1	1607.8	1586.4	1569.3	1567.2	1567.2
40°	2809.4	2672.6	2330.5	2014.1	1776.7	1607.8	1520.2	1483.8	1485.9	1494.5	1494.5
42.5°	2948.4	2788.0	2381.8	2005.5	1721.1	1539.4	1417.5	1374.8	1389.7	1398.3	1400.4
45°	3110.9	2924.9	2439.5	1994.8	1669.8	1462.4	1308.5	1255.0	1261.5	1263.6	1265.7
47.5°	3299.0	3076.7	2499.4	1986.3	1612.1	1366.2	1188.8	1118.2	1116.1	1103.2	1107.5
50°	3495.7	3237.0	2561.4	1971.3	1541.5	1252.9	1062.6	979.2	962.1	942.9	945.0
52.5°	3705.3	3401.6	2619.1	1947.8	1453.9	1137.4	942.9	853.1	818.9	797.5	801.8
55°	3936.2	3570.6	2674.7	1911.4	1361.9	1022.0	836.0	744.0	701.3	684.2	686.3
57.5°	4147.8	3733.0	2715.3	1866.5	1261.5	917.2	741.9	652.1	624.3	622.2	624.3
60°	4353.1	3869.9	2732.4	1804.5	1158.8	821.0	654.2	585.8	566.6	577.3	579.4
62.5°	4526.3	3957.5	2723.9	1721.1	1054.1	729.1	583.7	534.5	521.7	543.1	545.2
65°	4626.8	3985.3	2664.0	1601.4	940.7	639.3	517.4	464.0	457.5	470.4	476.8
67.5°	4494.2	3812.2	2501.5	1436.8	814.6	555.9	453.3	410.5	399.8	410.5	410.5
70°	3983.2	3303.3	2116.7	1175.9	675.6	474.6	393.4	363.5	354.9	363.5	361.3
72.5°	3318.3	2747.4	1667.7	917.2	532.4	399.8	342.1	314.3	305.7	297.2	292.9
75°	2574.2	2086.7	1210.1	673.5	402.0	320.7	286.5	260.8	239.5	248.0	243.7
77.5°	1885.8	1464.6	857.4	466.1	288.6	248.0	224.5	205.3	190.3	207.4	205.3
80°	1214.4	947.2	573.0	312.2	198.8	173.2	164.6	153.9	168.9	220.2	224.5
82.5°	741.9	600.8	342.1	203.1	130.4	115.5	106.9	106.9	173.2	190.3	192.4
85°	331.4	318.6	186.0	104.8	72.7	66.3	59.9	77.0	70.6	51.3	53.5
87.5°	53.5	55.6	40.6	36.3	27.8	27.8	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)