

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: P836097

Luminaire Tested: **ARCH3-140-722-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836097
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-140-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1110mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17465 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 142.5
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



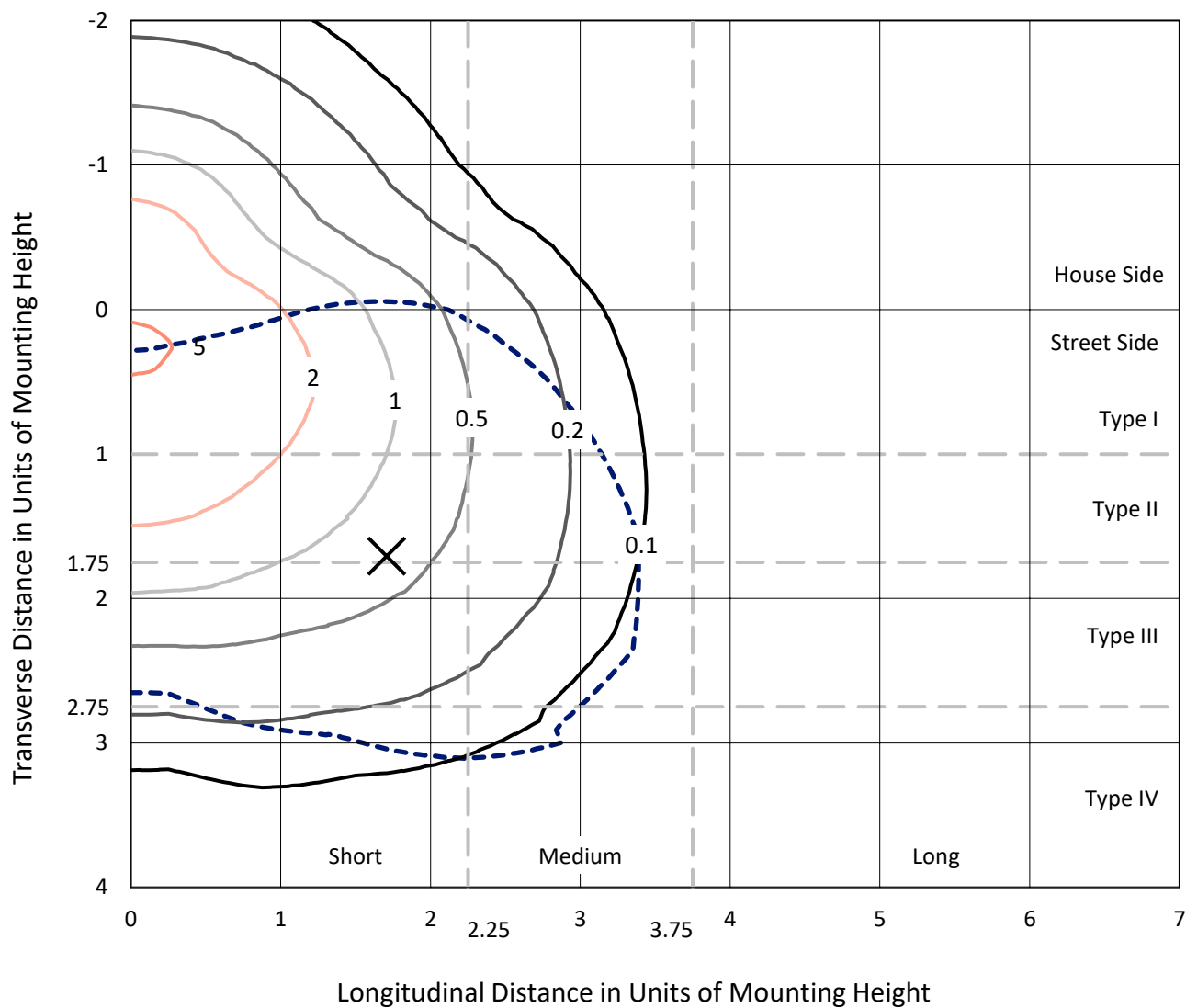
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



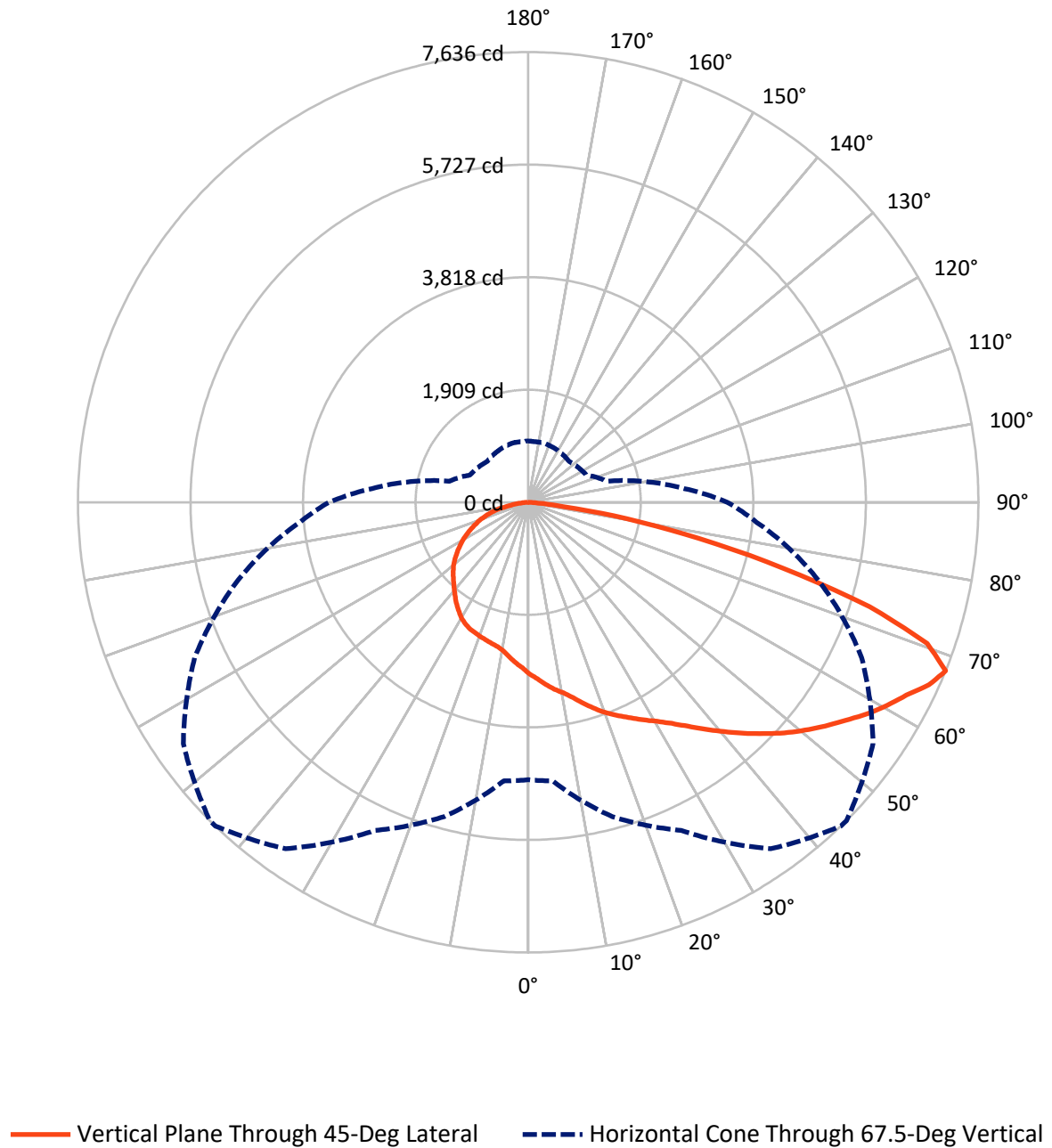
Based on 25 foot mounting height. Maximum calculated value = 5.4 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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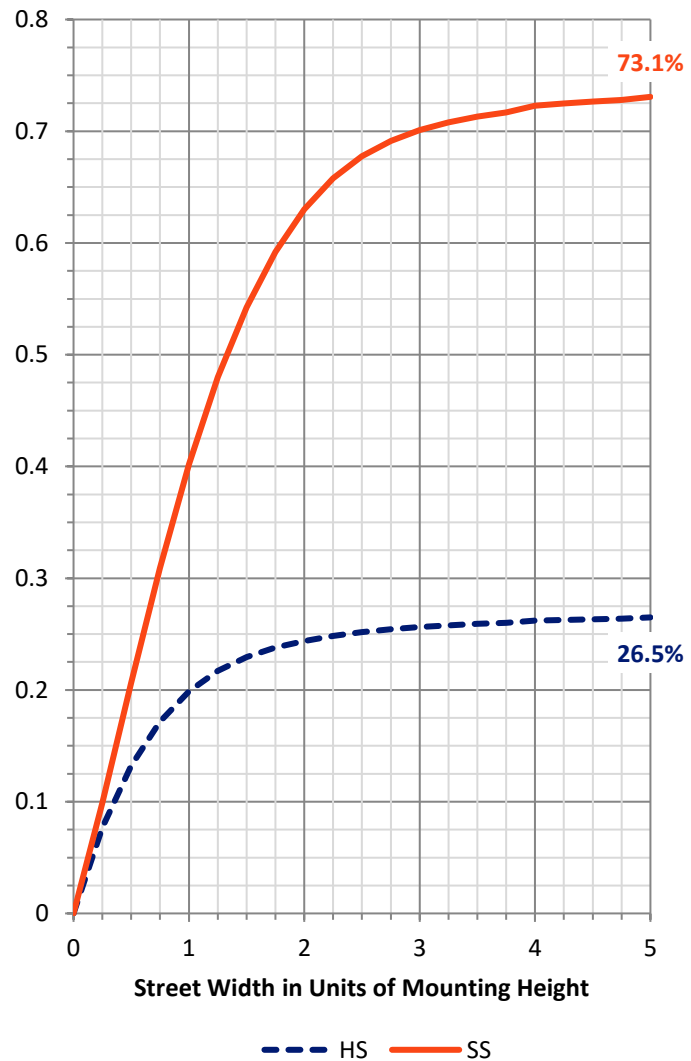
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4665.8	0.0	4665.8
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	12799.2	0.0	12799.2
	% Fixture	73.3	0.0	73.3
Total	Lumens	17465.0	0.0	17465.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.9	1.6
10°-20°	861.5	4.9
20°-30°	1487.1	8.5
30°-40°	2192.9	12.6
40°-50°	2971.0	17.0
50°-60°	3631.3	20.8
60°-70°	3745.1	21.4
70°-80°	2051.3	11.7
80°-90°	245.9	1.4
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°	17465.0	100.0
0°-180°	17465.0	100.0

Coefficient of Utilization



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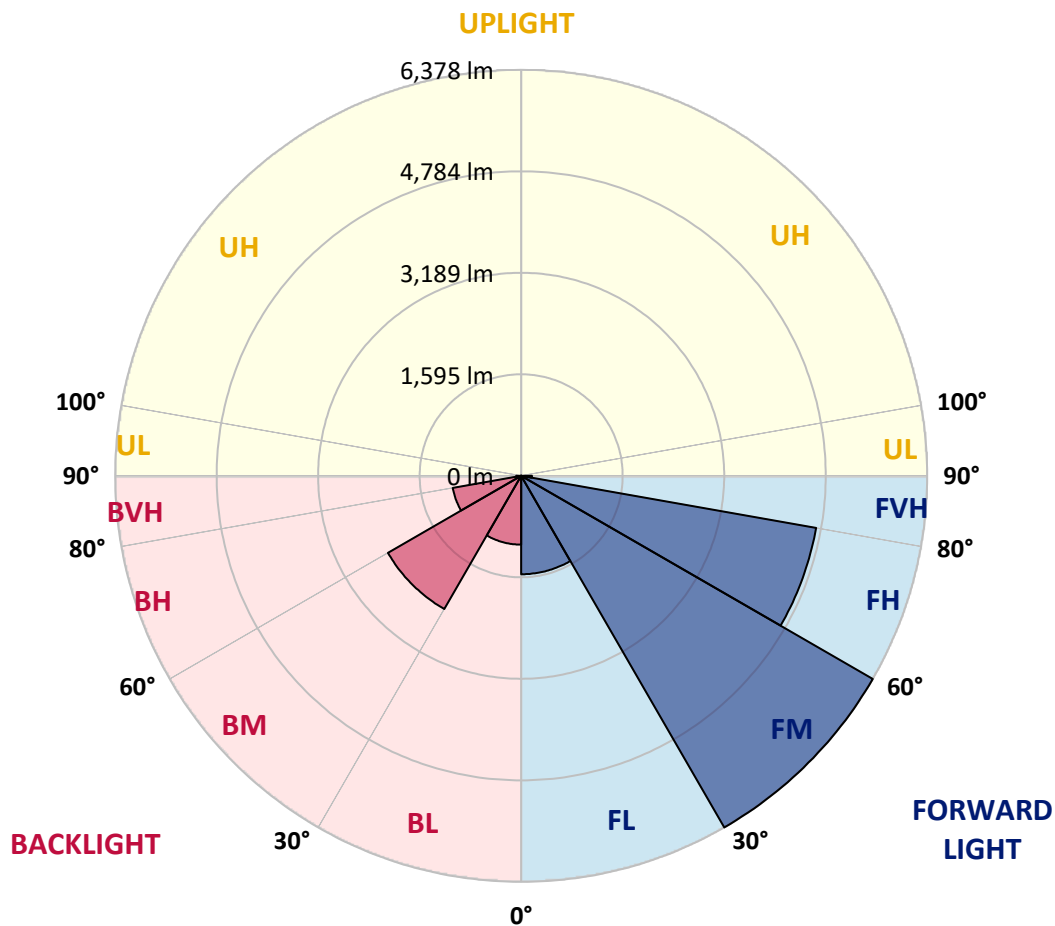
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1546.1	8.9			
FM	(30°-60°)	6378.4	36.5			
FH	(60°-80°)	4705.3	26.9			G2/5000
FVH	(80°-90°)	169.4	1.0			G2/225
BL	(0°-30°)	1081.4	6.2	B3/2500		
BM	(30°-60°)	2416.8	13.8	B2/2500		
BH	(60°-80°)	1091.1	6.2	B3/2500		G3/2500
BVH	(80°-90°)	76.5	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2912.8	2912.8	2912.8	2912.8	2912.8	2912.8	2912.8	2912.8	2912.8	2912.8	2912.8
2.5°	3040.4	3037.7	3043.1	3024.5	3000.5	2997.9	2997.9	2981.9	2963.3	2926.1	2896.9
5°	3183.9	3178.6	3181.3	3154.7	3122.8	3106.8	3104.2	3069.6	3027.1	2968.6	2915.5
7.5°	3316.8	3311.5	3308.8	3279.6	3231.8	3205.2	3202.5	3152.0	3101.5	3011.2	2934.1
10°	3441.7	3436.4	3431.1	3391.2	3332.7	3292.9	3287.6	3223.8	3160.0	3048.4	2950.0
12.5°	3601.2	3590.5	3585.2	3537.4	3452.3	3409.8	3401.8	3316.8	3237.1	3101.5	2981.9
15°	3768.6	3760.6	3752.7	3707.5	3611.8	3556.0	3542.7	3436.4	3327.4	3170.6	3029.8
17.5°	3893.5	3885.5	3885.5	3845.7	3758.0	3694.2	3683.6	3556.0	3420.4	3234.4	3067.0
20°	3970.6	3962.6	3970.6	3946.7	3880.2	3827.1	3816.4	3675.6	3513.5	3292.9	3098.9
22.5°	4026.4	4018.4	4031.7	4021.1	3973.2	3941.4	3933.4	3795.2	3609.1	3354.0	3130.8
25°	4124.7	4124.7	4124.7	4106.1	4061.0	4050.3	4050.3	3930.7	3731.4	3433.7	3178.6
27.5°	4321.4	4310.8	4297.5	4244.3	4167.3	4164.6	4180.5	4068.9	3872.3	3537.4	3237.1
30°	4611.1	4605.8	4555.3	4443.7	4313.4	4300.1	4310.8	4217.8	4023.7	3646.4	3303.5
32.5°	4985.8	4967.2	4863.6	4696.1	4510.1	4449.0	4470.2	4371.9	4183.2	3758.0	3367.3
35°	5251.6	5256.9	5182.5	5031.0	4810.4	4648.3	4664.2	4544.7	4356.0	3882.9	3447.0
37.5°	5557.2	5575.8	5464.2	5349.9	5145.3	4868.9	4884.8	4722.7	4528.7	4039.7	3532.1
40°	5979.8	5942.6	5753.9	5618.4	5392.5	5100.1	5113.4	4922.0	4728.0	4188.5	3630.4
42.5°	6333.3	6266.8	6038.3	5865.5	5594.4	5344.6	5357.9	5137.3	4930.0	4353.3	3739.4
45°	6840.9	6657.5	6328.0	6242.9	5801.7	5583.8	5597.1	5365.9	5142.6	4528.7	3856.3
47.5°	7135.9	6843.6	6633.6	6588.4	6030.3	5831.0	5846.9	5607.7	5371.2	4728.0	3978.6
50°	7117.3	6928.6	6867.5	6755.9	6232.3	6062.2	6078.1	5857.6	5602.4	4924.7	4095.5
52.5°	6995.0	7029.6	6997.7	6811.7	6434.3	6285.4	6304.0	6104.7	5838.9	5108.1	4204.5
55°	7183.7	7207.7	7146.5	6902.0	6657.5	6508.7	6529.9	6365.2	6072.8	5270.2	4297.5
57.5°	7409.6	7324.6	7263.5	7061.5	6888.7	6750.5	6774.5	6630.9	6274.8	5400.4	4369.2
60°	7399.0	7220.9	7282.1	7072.1	7045.5	6973.8	6995.0	6848.9	6429.0	5496.1	4398.5
62.5°	6854.2	6758.5	7066.8	6995.0	7173.1	7173.1	7199.7	6981.8	6522.0	5536.0	4382.5
65°	5908.0	5913.4	6455.5	6753.2	7324.6	7446.9	7468.1	7064.1	6468.8	5419.0	4233.7
67.5°	4706.8	4741.3	5520.0	6139.3	7173.1	7632.9	7635.5	7138.6	6240.3	5089.5	3888.2
70°	3444.4	3470.9	4390.5	5142.6	6458.2	7220.9	7178.4	6928.6	5743.3	4515.4	3348.7
72.5°	2328.1	2352.1	3298.2	3949.3	5299.4	6149.9	6056.9	6123.3	4895.5	3710.1	2692.2
75°	1565.4	1594.6	2346.7	2825.1	3898.8	4669.6	4462.3	4637.7	3787.2	2809.2	1964.0
77.5°	986.0	1004.6	1491.0	1852.4	2663.0	3178.6	2971.3	2974.0	2182.0	1512.2	1055.1
80°	627.2	632.5	903.6	1068.4	1541.5	1910.9	1690.3	1374.0	983.3	802.6	629.9
82.5°	364.1	356.1	539.5	603.3	733.5	725.5	600.6	568.7	430.5	401.3	321.6
85°	146.2	135.5	236.5	220.6	223.2	236.5	175.4	175.4	140.9	109.0	79.7
87.5°	29.2	29.2	31.9	29.2	29.2	31.9	23.9	23.9	21.3	21.3	21.3
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°	2912.8	2912.8	2912.8	2912.8	2912.8	2912.8	2912.8	2912.8	2912.8	2912.8	2912.8
2.5°	2891.6	2886.3	2873.0	2838.4	2819.8	2809.2	2793.2	2787.9	2785.3	2787.9	2795.9
5°	2899.5	2880.9	2843.7	2787.9	2750.7	2726.8	2700.2	2689.6	2681.6	2681.6	2689.6
7.5°	2904.9	2875.6	2811.8	2729.4	2676.3	2639.1	2607.2	2593.9	2591.2	2599.2	2601.9
10°	2907.5	2865.0	2774.6	2671.0	2601.9	2554.0	2522.1	2514.2	2522.1	2538.1	2540.8
12.5°	2926.1	2867.6	2753.4	2631.1	2548.7	2500.9	2477.0	2477.0	2498.2	2527.5	2530.1
15°	2958.0	2886.3	2742.7	2599.2	2514.2	2471.7	2463.7	2477.0	2508.9	2554.0	2559.4
17.5°	2981.9	2896.9	2718.8	2556.7	2469.0	2442.4	2455.7	2487.6	2532.8	2593.9	2599.2
20°	2997.9	2896.9	2684.3	2506.2	2423.8	2418.5	2455.7	2506.2	2554.0	2625.8	2633.8
22.5°	3013.8	2891.6	2644.4	2445.1	2373.3	2389.3	2458.4	2522.1	2570.0	2647.1	2660.3
25°	3043.1	2899.5	2604.5	2383.9	2320.2	2365.3	2455.7	2532.8	2583.3	2663.0	2684.3
27.5°	3082.9	2918.1	2575.3	2328.1	2267.0	2328.1	2437.1	2530.1	2583.3	2660.3	2684.3
30°	3125.4	2939.4	2540.8	2267.0	2205.9	2275.0	2397.2	2500.9	2562.0	2633.8	2663.0
32.5°	3170.6	2963.3	2511.5	2200.6	2131.5	2203.2	2338.8	2455.7	2522.1	2588.6	2620.5
35°	3231.8	3005.8	2495.6	2147.4	2065.0	2128.8	2264.4	2397.2	2469.0	2530.1	2567.3
37.5°	3306.2	3059.0	2487.6	2094.3	1993.3	2046.4	2184.6	2325.5	2402.6	2453.0	2487.6
40°	3391.2	3125.4	2484.9	2043.8	1921.5	1961.4	2102.2	2243.1	2317.5	2357.4	2386.6
42.5°	3486.9	3199.9	2479.6	1993.3	1849.8	1881.6	2022.5	2160.7	2224.5	2259.0	2285.6
45°	3587.9	3274.3	2469.0	1932.1	1772.7	1809.9	1940.1	2062.4	2128.8	2158.0	2187.3
47.5°	3688.9	3348.7	2447.7	1863.0	1703.6	1738.1	1852.4	1958.7	2011.9	2038.4	2067.7
50°	3787.2	3415.1	2397.2	1783.3	1631.8	1663.7	1751.4	1823.2	1863.0	1884.3	1913.5
52.5°	3874.9	3460.3	2325.5	1690.3	1560.1	1576.0	1634.5	1695.6	1727.5	1730.2	1756.7
55°	3949.3	3484.2	2221.8	1594.6	1483.0	1485.6	1517.5	1565.4	1578.7	1568.0	1586.6
57.5°	3991.9	3470.9	2107.5	1496.3	1403.3	1392.6	1416.5	1440.5	1443.1	1416.5	1435.2
60°	4002.5	3409.8	1958.7	1397.9	1323.5	1294.3	1302.3	1297.0	1291.6	1281.0	1297.0
62.5°	3949.3	3279.6	1793.9	1302.3	1238.5	1193.3	1190.6	1188.0	1196.0	1198.6	1201.3
65°	3755.3	3035.1	1597.3	1203.9	1148.1	1087.0	1084.3	1116.2	1126.9	1110.9	1116.2
67.5°	3380.6	2660.3	1382.0	1089.7	1033.8	980.7	1001.9	1020.6	1039.2	1033.8	1039.2
70°	2849.0	2184.6	1185.3	962.1	908.9	879.7	903.6	919.6	922.2	916.9	922.2
72.5°	2240.4	1706.2	1001.9	831.9	784.0	770.7	800.0	813.3	837.2	847.8	850.5
75°	1618.5	1259.7	821.2	691.0	651.1	651.1	677.7	701.6	722.9	709.6	701.6
77.5°	903.6	752.1	590.0	475.7	483.7	520.9	531.5	558.1	579.4	576.7	571.4
80°	547.5	470.4	398.7	308.3	305.6	334.9	404.0	449.1	459.8	435.9	433.2
82.5°	284.4	247.2	212.6	172.7	191.4	223.2	233.9	281.7	310.9	300.3	313.6
85°	71.8	69.1	77.1	79.7	98.3	109.0	119.6	140.9	93.0	45.2	45.2
87.5°	21.3	21.3	26.6	26.6	34.5	42.5	39.9	39.9	21.3	2.7	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)