

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: P835953

Luminaire Tested: **ARCH3-120-722-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835953
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: ARCH3-120-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15650 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 122.7
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

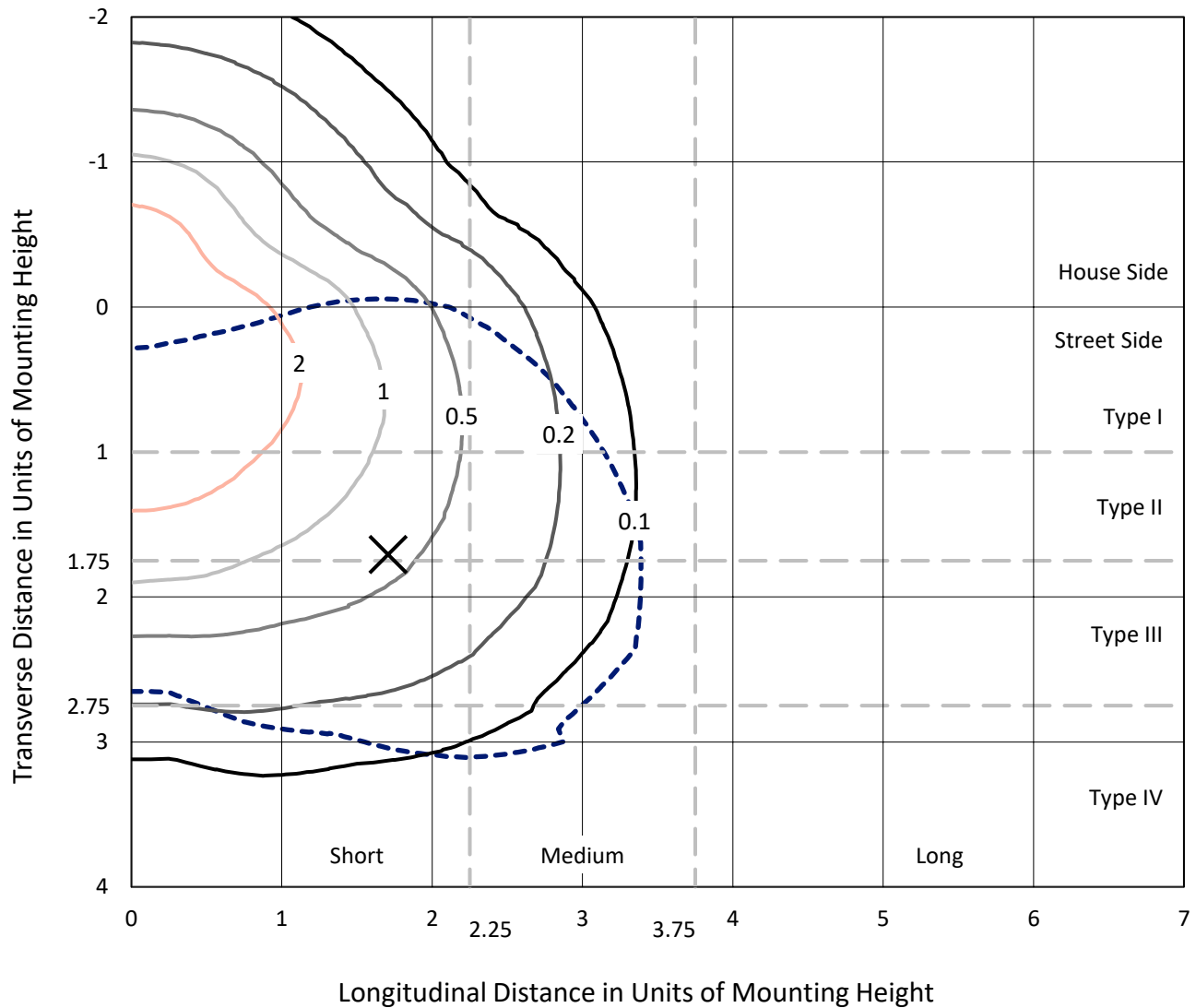


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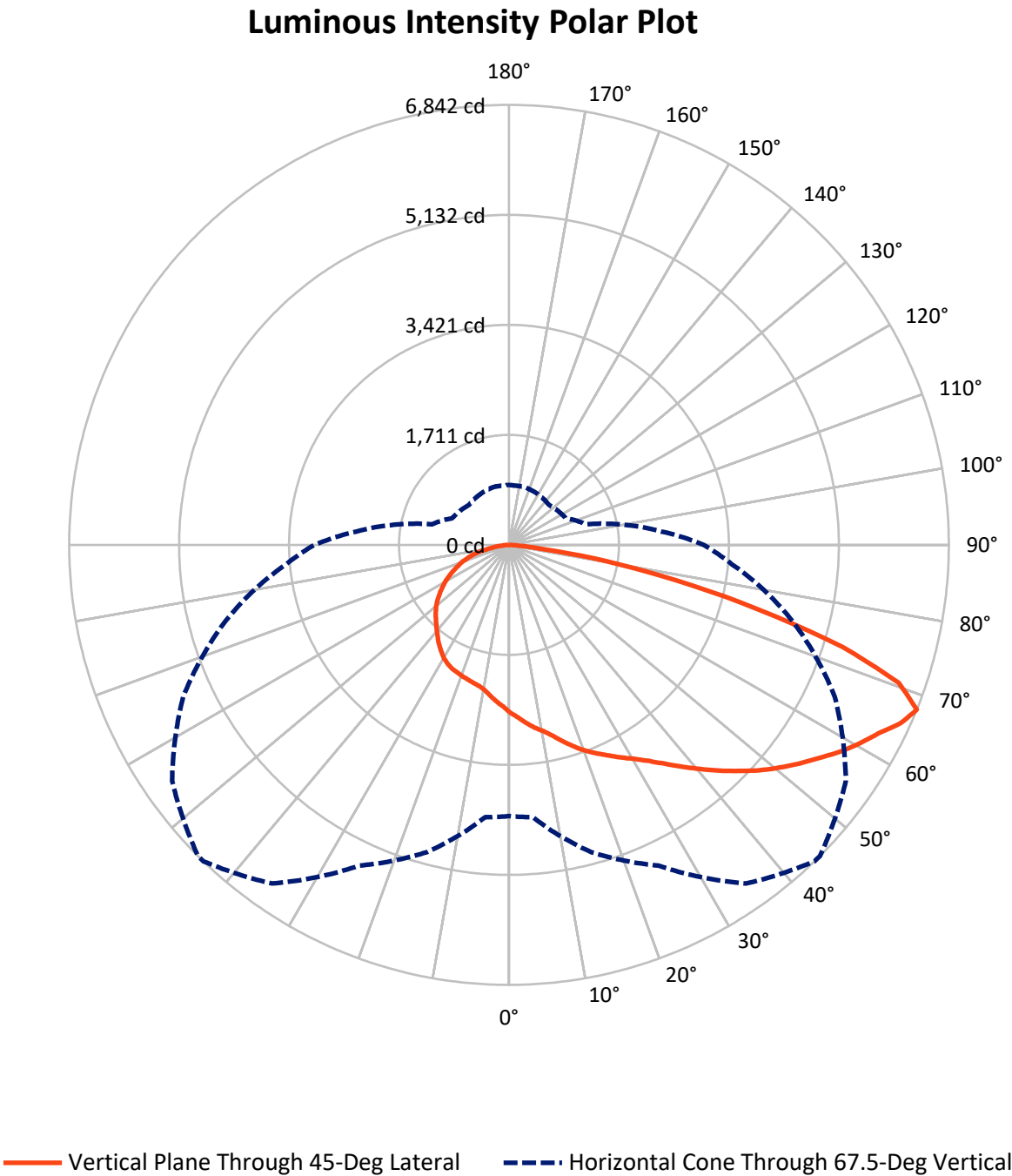
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
Type IV - Short - N/A

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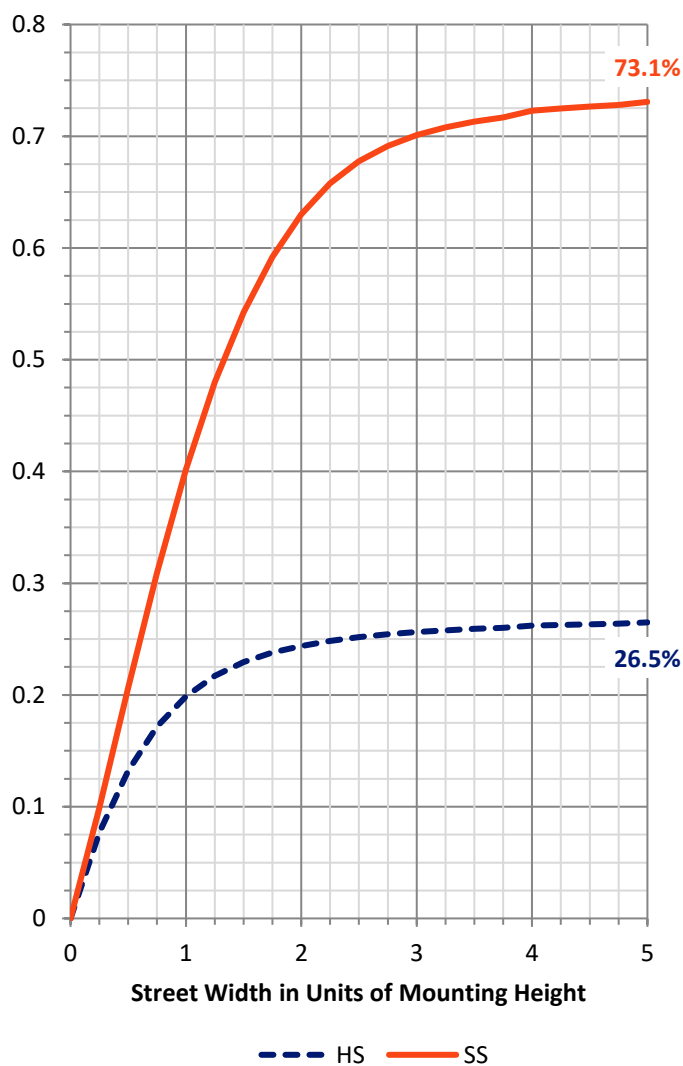
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4180.9	0.0	4180.9
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	11469.1	0.0	11469.1
	% Fixture	73.3	0.0	73.3
Total	Lumens	15650.0	0.0	15650.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.9	1.6
10°-20°	772.0	4.9
20°-30°	1332.5	8.5
30°-40°	1965.0	12.6
40°-50°	2662.2	17.0
50°-60°	3253.9	20.8
60°-70°	3355.9	21.4
70°-80°	1838.1	11.7
80°-90°	220.3	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°	15650.0	100.0
0°-180°	15650.0	100.0

Coefficient of Utilization



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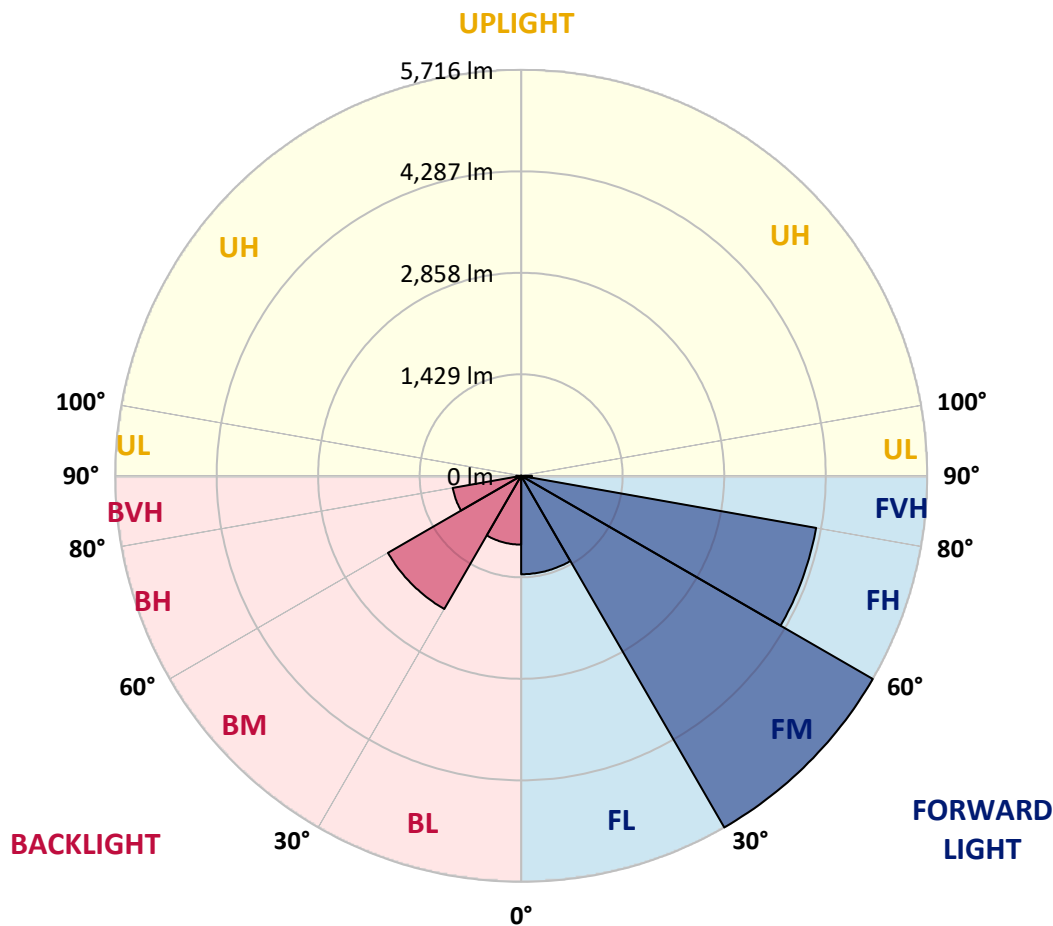
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1385.4	8.9			
FM	(30°-60°)	5715.5	36.5			
FH	(60°-80°)	4216.3	26.9			G2/5000
FVH	(80°-90°)	151.8	1.0			G2/225
BL	(0°-30°)	969.0	6.2	B2/1000		
BM	(30°-60°)	2165.6	13.8	B2/2500		
BH	(60°-80°)	977.7	6.2	B2/1000		G2/1000
BVH	(80°-90°)	68.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2610.1	2610.1	2610.1	2610.1	2610.1	2610.1	2610.1	2610.1	2610.1	2610.1	2610.1
2.5°	2724.4	2722.1	2726.8	2710.1	2688.7	2686.3	2686.3	2672.0	2655.4	2622.0	2595.8
5°	2853.0	2848.3	2850.7	2826.8	2798.3	2784.0	2781.6	2750.6	2712.5	2660.1	2612.5
7.5°	2972.1	2967.3	2965.0	2938.8	2895.9	2872.1	2869.7	2824.5	2779.2	2698.2	2629.2
10°	3084.0	3079.3	3074.5	3038.8	2986.4	2950.7	2945.9	2888.8	2831.6	2731.6	2643.5
12.5°	3226.9	3217.4	3212.6	3169.8	3093.6	3055.5	3048.3	2972.1	2900.7	2779.2	2672.0
15°	3377.0	3369.8	3362.7	3322.2	3236.5	3186.4	3174.5	3079.3	2981.6	2841.1	2714.9
17.5°	3488.9	3481.8	3481.8	3446.0	3367.4	3310.3	3300.8	3186.4	3065.0	2898.3	2748.3
20°	3558.0	3550.8	3558.0	3536.5	3477.0	3429.4	3419.8	3293.6	3148.3	2950.7	2776.8
22.5°	3608.0	3600.8	3612.7	3603.2	3560.3	3531.8	3524.6	3400.8	3234.1	3005.5	2805.4
25°	3696.1	3696.1	3696.1	3679.4	3638.9	3629.4	3629.4	3522.2	3343.6	3076.9	2848.3
27.5°	3872.3	3862.8	3850.9	3803.3	3734.2	3731.8	3746.1	3646.1	3469.8	3169.8	2900.7
30°	4131.9	4127.1	4081.9	3981.9	3865.2	3853.3	3862.8	3779.4	3605.6	3267.4	2960.2
32.5°	4467.7	4451.0	4358.1	4208.1	4041.4	3986.6	4005.7	3917.6	3748.5	3367.4	3017.4
35°	4705.8	4710.6	4643.9	4508.2	4310.5	4165.2	4179.5	4072.4	3903.3	3479.4	3088.8
37.5°	4979.7	4996.4	4896.4	4794.0	4610.6	4362.9	4377.2	4231.9	4058.1	3619.9	3165.0
40°	5358.4	5325.0	5155.9	5034.5	4832.1	4570.1	4582.0	4410.5	4236.7	3753.2	3253.1
42.5°	5675.1	5615.6	5410.8	5256.0	5013.1	4789.2	4801.1	4603.4	4417.7	3900.9	3350.8
45°	6130.0	5965.7	5670.3	5594.1	5198.8	5003.5	5015.4	4808.2	4608.2	4058.1	3455.6
47.5°	6394.3	6132.4	5944.2	5903.7	5403.6	5225.0	5239.3	5025.0	4813.0	4236.7	3565.1
50°	6377.7	6208.6	6153.8	6053.8	5584.6	5432.2	5446.5	5248.8	5020.2	4412.9	3669.9
52.5°	6268.1	6299.1	6270.5	6103.8	5765.6	5632.2	5648.9	5470.3	5232.2	4577.2	3767.5
55°	6437.2	6458.6	6403.9	6184.8	5965.7	5832.3	5851.3	5703.7	5441.7	4722.5	3850.9
57.5°	6639.6	6563.4	6508.6	6327.6	6172.8	6049.0	6070.4	5941.8	5622.7	4839.2	3915.2
60°	6630.1	6470.5	6525.3	6337.2	6313.4	6249.1	6268.1	6137.1	5760.8	4924.9	3941.4
62.5°	6141.9	6056.2	6332.4	6268.1	6427.7	6427.7	6451.5	6256.2	5844.2	4960.7	3927.1
65°	5294.1	5298.8	5784.7	6051.4	6563.4	6673.0	6692.0	6330.0	5796.6	4855.9	3793.7
67.5°	4217.6	4248.6	4946.4	5501.3	6427.7	6839.7	6842.0	6396.7	5591.8	4560.6	3484.1
70°	3086.4	3110.2	3934.2	4608.2	5787.0	6470.5	6432.4	6208.6	5146.4	4046.2	3000.7
72.5°	2086.2	2107.6	2955.4	3538.9	4748.7	5510.8	5427.4	5487.0	4386.7	3324.6	2412.5
75°	1402.7	1428.9	2102.9	2531.5	3493.7	4184.3	3998.5	4155.7	3393.6	2517.2	1759.9
77.5°	883.5	900.2	1336.0	1659.9	2386.3	2848.3	2662.5	2664.9	1955.2	1355.1	945.5
80°	562.0	566.8	809.7	957.4	1381.3	1712.3	1514.6	1231.2	881.2	719.2	564.4
82.5°	326.3	319.1	483.4	540.6	657.3	650.1	538.2	509.6	385.8	359.6	288.2
85°	131.0	121.5	212.0	197.7	200.0	212.0	157.2	157.2	126.2	97.6	71.4
87.5°	26.2	26.2	28.6	26.2	26.2	28.6	21.4	21.4	19.1	19.1	19.1
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°	2610.1	2610.1	2610.1	2610.1	2610.1	2610.1	2610.1	2610.1	2610.1	2610.1	2610.1
2.5°	2591.1	2586.3	2574.4	2543.4	2526.8	2517.2	2503.0	2498.2	2495.8	2498.2	2505.3
5°	2598.2	2581.5	2548.2	2498.2	2464.9	2443.4	2419.6	2410.1	2402.9	2402.9	2410.1
7.5°	2603.0	2576.8	2519.6	2445.8	2398.2	2364.8	2336.3	2324.3	2322.0	2329.1	2331.5
10°	2605.4	2567.3	2486.3	2393.4	2331.5	2288.6	2260.0	2252.9	2260.0	2274.3	2276.7
12.5°	2622.0	2569.6	2467.2	2357.7	2283.9	2241.0	2219.6	2219.6	2238.6	2264.8	2267.2
15°	2650.6	2586.3	2457.7	2329.1	2252.9	2214.8	2207.6	2219.6	2248.1	2288.6	2293.4
17.5°	2672.0	2595.8	2436.3	2291.0	2212.4	2188.6	2200.5	2229.1	2269.6	2324.3	2329.1
20°	2686.3	2595.8	2405.3	2245.8	2171.9	2167.2	2200.5	2245.8	2288.6	2352.9	2360.1
22.5°	2700.6	2591.1	2369.6	2191.0	2126.7	2141.0	2202.9	2260.0	2302.9	2372.0	2383.9
25°	2726.8	2598.2	2333.9	2136.2	2079.0	2119.5	2200.5	2269.6	2314.8	2386.3	2405.3
27.5°	2762.5	2614.9	2307.7	2086.2	2031.4	2086.2	2183.8	2267.2	2314.8	2383.9	2405.3
30°	2800.6	2633.9	2276.7	2031.4	1976.6	2038.6	2148.1	2241.0	2295.8	2360.1	2386.3
32.5°	2841.1	2655.4	2250.5	1971.9	1910.0	1974.3	2095.7	2200.5	2260.0	2319.6	2348.2
35°	2895.9	2693.5	2236.2	1924.3	1850.4	1907.6	2029.0	2148.1	2212.4	2267.2	2300.5
37.5°	2962.6	2741.1	2229.1	1876.6	1786.1	1833.8	1957.6	2083.8	2152.9	2198.1	2229.1
40°	3038.8	2800.6	2226.7	1831.4	1721.8	1757.5	1883.8	2010.0	2076.7	2112.4	2138.6
42.5°	3124.5	2867.3	2221.9	1786.1	1657.5	1686.1	1812.3	1936.2	1993.3	2024.3	2048.1
45°	3215.0	2934.0	2212.4	1731.3	1588.5	1621.8	1738.5	1848.0	1907.6	1933.8	1960.0
47.5°	3305.5	3000.7	2193.4	1669.4	1526.5	1557.5	1659.9	1755.2	1802.8	1826.6	1852.8
50°	3393.6	3060.2	2148.1	1598.0	1462.2	1490.8	1569.4	1633.7	1669.4	1688.5	1714.7
52.5°	3472.2	3100.7	2083.8	1514.6	1397.9	1412.2	1464.6	1519.4	1548.0	1550.4	1574.2
55°	3538.9	3122.1	1990.9	1428.9	1328.9	1331.3	1359.8	1402.7	1414.6	1405.1	1421.8
57.5°	3577.0	3110.2	1888.5	1340.8	1257.4	1247.9	1269.3	1290.8	1293.2	1269.3	1286.0
60°	3586.5	3055.5	1755.2	1252.7	1186.0	1159.8	1166.9	1162.2	1157.4	1147.9	1162.2
62.5°	3538.9	2938.8	1607.5	1166.9	1109.8	1069.3	1066.9	1064.5	1071.7	1074.1	1076.4
65°	3365.1	2719.7	1431.3	1078.8	1028.8	974.0	971.7	1000.2	1009.8	995.5	1000.2
67.5°	3029.3	2383.9	1238.4	976.4	926.4	878.8	897.8	914.5	931.2	926.4	931.2
70°	2553.0	1957.6	1062.1	862.1	814.5	788.3	809.7	824.0	826.4	821.6	826.4
72.5°	2007.6	1528.9	897.8	745.4	702.5	690.6	716.8	728.7	750.2	759.7	762.1
75°	1450.3	1128.8	735.9	619.2	583.5	583.5	607.3	628.7	647.8	635.9	628.7
77.5°	809.7	674.0	528.7	426.3	433.4	466.8	476.3	500.1	519.2	516.8	512.0
80°	490.6	421.5	357.2	276.3	273.9	300.1	362.0	402.5	412.0	390.6	388.2
82.5°	254.8	221.5	190.5	154.8	171.5	200.0	209.6	252.4	278.6	269.1	281.0
85°	64.3	61.9	69.1	71.4	88.1	97.6	107.2	126.2	83.4	40.5	40.5
87.5°	19.1	19.1	23.8	23.8	31.0	38.1	35.7	35.7	19.1	2.4	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)