

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: P1210845

Luminaire Tested: **ARCH3-90-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-90-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14186 lumens
Efficiency: N/A
Efficacy: 152.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - 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

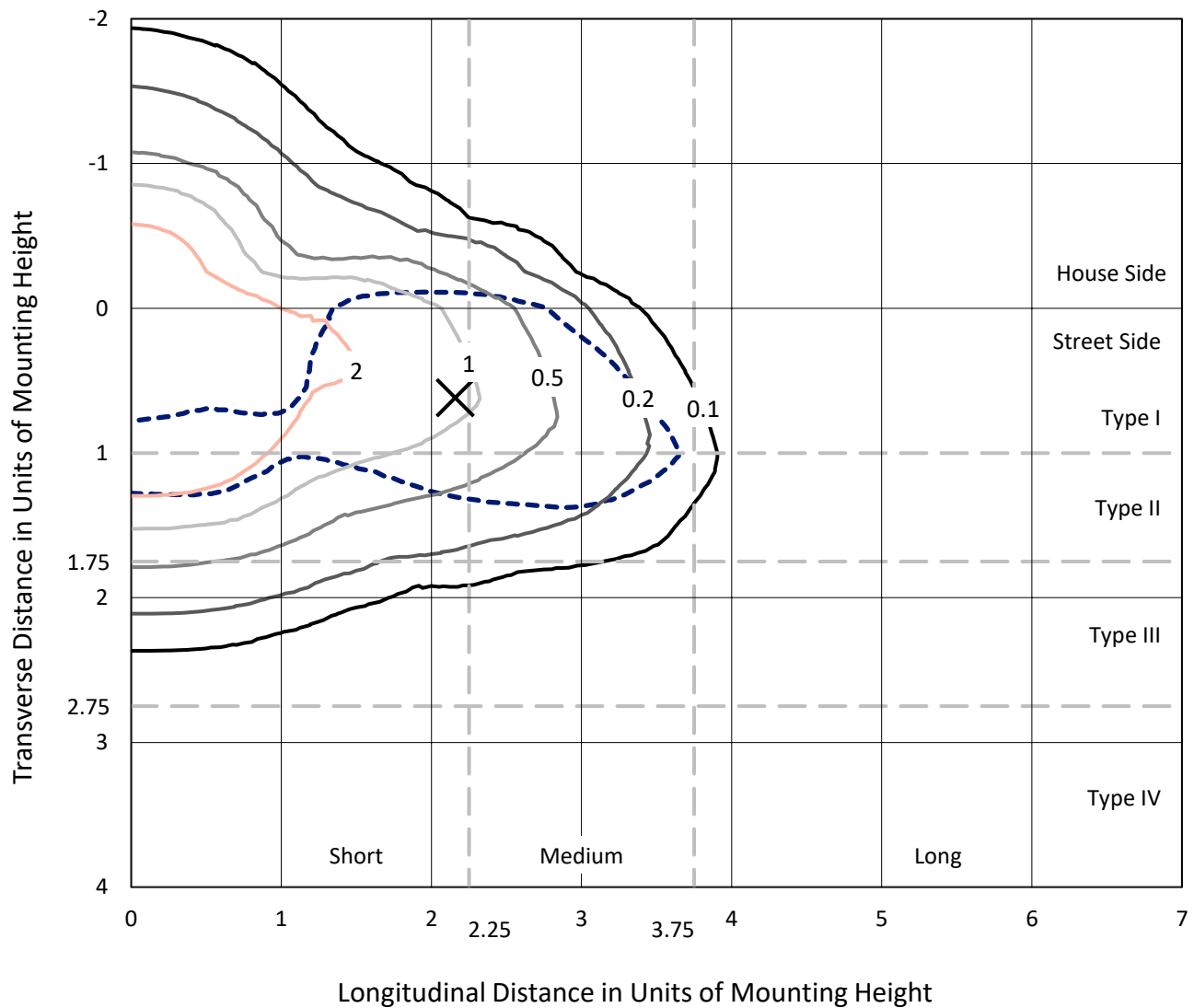


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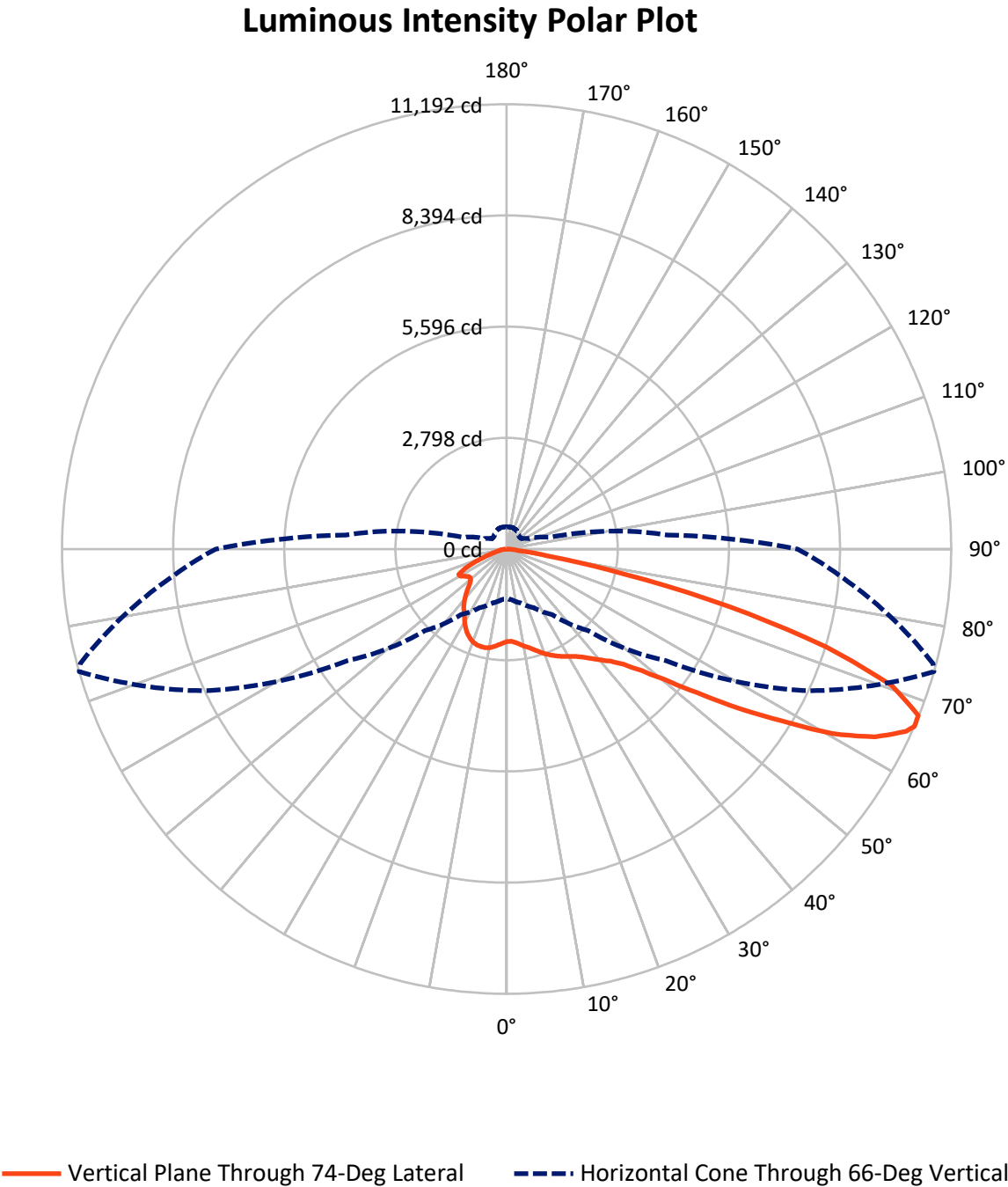
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
Type II - Short - N/A

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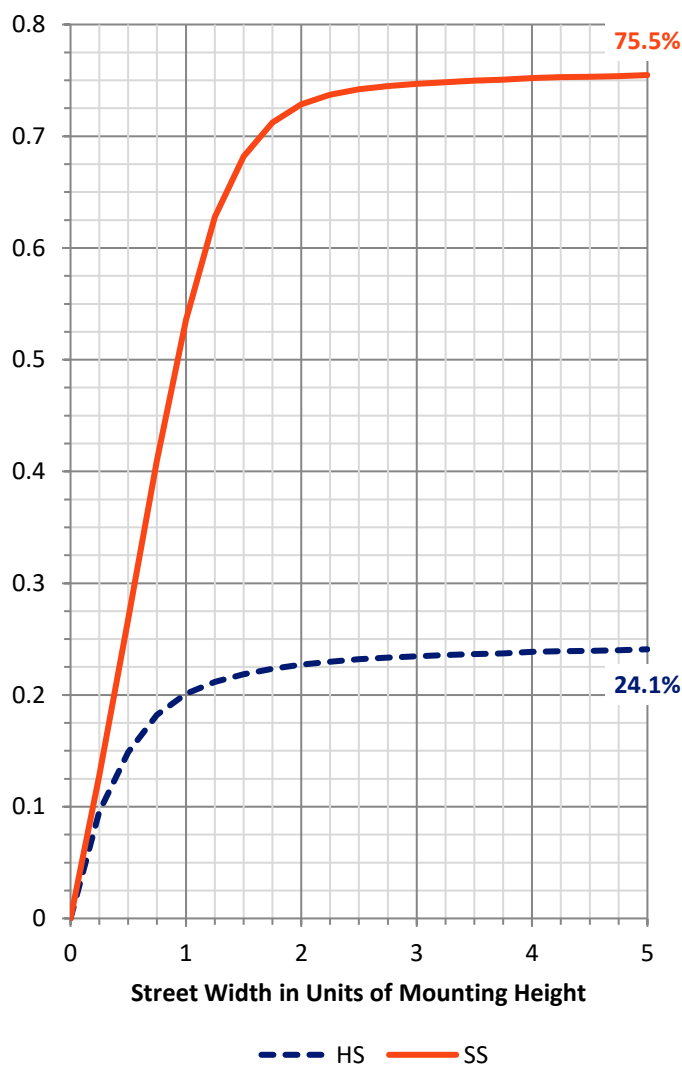
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3454.7	0.0	3454.7
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	10731.3	0.0	10731.3
	% Fixture	75.6	0.0	75.6
Total	Lumens	14186.0	0.0	14186.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.8	1.6
10°-20°	682.2	4.8
20°-30°	1280.1	9.0
30°-40°	1969.2	13.9
40°-50°	2648.7	18.7
50°-60°	3132.4	22.1
60°-70°	2897.6	20.4
70°-80°	1219.0	8.6
80°-90°	134.9	1.0
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°	14186.0	100.0
0°-180°	14186.0	100.0

Coefficient of Utilization



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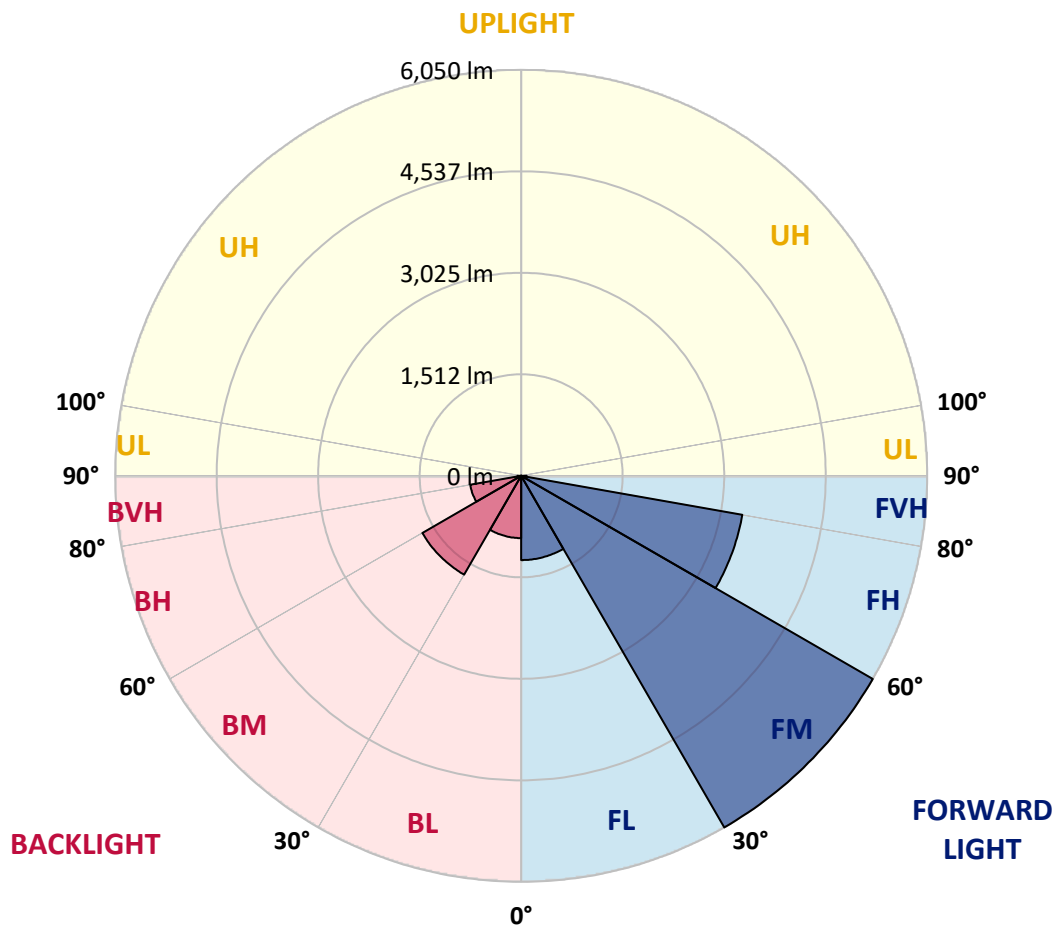
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1255.6	8.9			
FM	(30°-60°)	6049.5	42.6			
FH	(60°-80°)	3345.5	23.6			G2/5000
FVH	(80°-90°)	80.7	0.6			G1/100
BL	(0°-30°)	928.5	6.5	B2/1000		
BM	(30°-60°)	1700.7	12.0	B2/2500		
BH	(60°-80°)	771.2	5.4	B2/1000		G2/1000
BVH	(80°-90°)	54.2	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2325.6	2325.6	2325.6	2325.6	2325.6	2325.6	2325.6	2325.6	2325.6	2325.6	2325.6
2.5°	2318.3	2314.6	2321.9	2332.9	2338.3	2329.2	2325.6	2323.7	2323.7	2318.3	2327.4
5°	2208.7	2206.9	2223.3	2243.4	2281.7	2309.1	2345.6	2367.5	2360.2	2349.3	2356.6
7.5°	2066.4	2062.7	2082.8	2121.1	2174.0	2234.3	2323.7	2393.1	2420.5	2416.8	2415.0
10°	2121.1	2117.5	2115.6	2104.7	2122.9	2181.4	2274.4	2396.7	2489.8	2491.7	2493.5
12.5°	2311.0	2320.1	2311.0	2276.3	2236.1	2214.2	2269.0	2405.9	2548.3	2559.2	2604.8
15°	2570.2	2561.0	2542.8	2502.6	2440.6	2374.8	2334.7	2447.9	2632.2	2641.4	2741.7
17.5°	2798.3	2805.6	2794.7	2756.4	2683.3	2597.5	2475.2	2520.9	2721.7	2747.2	2887.8
20°	3046.6	3075.8	3061.2	3013.7	2953.5	2825.7	2672.4	2626.7	2820.2	2838.5	3039.3
22.5°	3333.2	3364.2	3336.8	3291.2	3241.9	3084.9	2887.8	2756.4	2902.4	2940.7	3185.3
25°	3676.4	3705.6	3680.0	3608.8	3546.7	3355.1	3119.6	2902.4	2982.7	3024.7	3304.0
27.5°	3948.3	3970.2	3994.0	3952.0	3857.1	3658.1	3360.6	3053.9	3063.0	3106.8	3413.5
30°	4191.1	4245.9	4266.0	4271.4	4191.1	3968.4	3607.0	3210.9	3132.4	3178.0	3523.0
32.5°	4523.3	4605.5	4572.6	4605.5	4558.0	4260.5	3862.5	3373.3	3221.8	3263.8	3627.1
35°	5008.9	5074.6	4988.8	4963.3	4886.6	4556.2	4109.0	3541.3	3340.5	3386.1	3725.6
37.5°	5531.0	5605.8	5481.7	5379.4	5233.4	4848.3	4320.7	3762.1	3504.8	3541.3	3816.9
40°	5987.3	6049.4	5941.7	5806.6	5562.0	5105.6	4503.3	3917.3	3669.0	3714.7	3922.8
42.5°	6409.0	6449.1	6328.7	6199.1	5872.3	5337.5	4700.4	4081.6	3860.7	3904.5	4008.6
45°	6836.1	6867.1	6699.2	6514.8	6131.5	5549.2	4917.6	4311.6	4141.8	4200.2	4147.3
47.5°	6912.8	6921.9	6892.7	6768.6	6336.0	5751.8	5186.0	4620.1	4570.8	4634.7	4386.4
50°	6381.6	6463.7	6644.4	6766.8	6418.1	5921.6	5454.3	5061.8	5162.2	5244.4	4882.9
52.5°	5350.2	5428.7	5846.7	6310.4	6221.0	5959.9	5742.7	5622.2	5996.4	6095.0	5558.3
55°	4262.3	4331.7	4773.4	5441.5	5583.9	5784.7	6051.2	6337.8	7060.6	7126.4	6299.4
57.5°	3510.2	3548.6	3864.4	4506.9	4735.1	5224.3	6217.3	7188.4	8143.1	8243.5	6943.8
60°	2878.7	2920.6	3156.1	3685.5	3988.5	4422.9	6085.9	8028.1	9435.5	9435.5	7770.7
62.5°	2166.7	2203.3	2422.3	2836.7	3346.0	3743.9	5666.0	8584.8	10410.2	10366.4	8369.4
65°	1487.7	1516.9	1675.7	1951.4	2409.5	3190.8	5092.9	8592.1	11056.4	10998.0	8625.0
66°	1248.6	1274.1	1409.2	1631.9	2017.1	2895.1	4890.2	8437.0	11191.5	11109.4	8517.3
67.5°	985.7	1004.0	1093.4	1224.8	1478.6	2343.8	4570.8	7997.1	11178.7	11129.5	8243.5
70°	704.6	717.4	783.1	810.5	874.4	1356.3	3630.7	7004.1	10282.5	10297.1	7166.5
72.5°	545.8	565.9	606.0	611.5	596.9	721.0	2203.3	5843.1	8411.4	8406.0	5319.2
75°	439.9	450.9	471.0	481.9	478.3	465.5	932.8	4359.1	5790.2	5857.7	2979.0
77.5°	346.8	345.0	363.3	377.9	388.8	365.1	427.1	2555.6	3035.6	2949.8	1119.0
80°	255.6	255.6	281.1	286.6	303.0	306.7	284.8	985.7	1042.3	947.4	290.2
82.5°	167.9	167.9	195.3	199.0	215.4	239.1	206.3	295.7	288.4	273.8	131.4
85°	91.3	87.6	96.7	109.5	118.7	140.6	124.1	147.9	151.5	149.7	87.6
87.5°	18.3	16.4	25.6	29.2	32.9	43.8	40.2	60.2	84.0	82.1	38.3
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°	2325.6	2325.6	2325.6	2325.6	2325.6	2325.6	2325.6	2325.6	2325.6	2325.6	2325.6
2.5°	2340.2	2338.3	2358.4	2382.1	2409.5	2426.0	2433.3	2446.0	2436.9	2440.6	2451.5
5°	2374.8	2380.3	2409.5	2440.6	2453.3	2444.2	2424.1	2416.8	2400.4	2396.7	2393.1
7.5°	2426.0	2435.1	2464.3	2471.6	2433.3	2369.4	2323.7	2298.2	2270.8	2263.5	2259.8
10°	2509.9	2515.4	2522.7	2447.9	2352.9	2267.1	2210.6	2186.8	2168.6	2154.0	2157.6
12.5°	2615.8	2612.1	2555.6	2400.4	2265.3	2177.7	2139.4	2124.8	2112.0	2102.9	2101.0
15°	2749.0	2723.5	2561.0	2334.7	2183.2	2110.2	2082.8	2077.3	2062.7	2062.7	2060.9
17.5°	2884.1	2818.4	2557.4	2265.3	2104.7	2064.5	2048.1	2044.4	2040.8	2039.0	2044.4
20°	3019.2	2902.4	2528.2	2179.5	2049.9	2026.2	2022.5	2024.4	2020.7	2026.2	2022.5
22.5°	3137.9	2957.1	2473.4	2088.3	2011.6	2009.8	2000.6	2004.3	2017.1	2018.9	2024.4
25°	3229.1	2977.2	2393.1	2004.3	1984.2	1980.6	1991.5	2006.1	2017.1	2018.9	2028.0
27.5°	3304.0	2966.3	2292.7	1938.6	1936.7	1956.8	1989.7	1995.2	1997.0	1997.0	1989.7
30°	3360.6	2942.5	2164.9	1865.6	1874.7	1924.0	1955.0	1955.0	1940.4	1936.7	1947.7
32.5°	3373.3	2911.5	2026.2	1790.7	1805.3	1863.7	1902.1	1889.3	1872.9	1872.9	1880.2
35°	3384.3	2869.5	1914.8	1688.5	1710.4	1779.8	1816.3	1790.7	1772.5	1767.0	1765.2
37.5°	3380.6	2853.1	1814.4	1558.9	1588.1	1655.6	1679.4	1655.6	1628.3	1615.5	1631.9
40°	3384.3	2842.1	1688.5	1416.5	1445.7	1485.9	1516.9	1498.7	1473.1	1440.2	1456.7
42.5°	3406.2	2856.7	1549.8	1277.8	1277.8	1299.7	1352.6	1339.8	1277.8	1265.0	1279.6
45°	3523.0	2935.2	1411.0	1139.0	1119.0	1133.6	1188.3	1133.6	1095.2	1095.2	1108.0
47.5°	3806.0	3081.3	1288.7	1016.7	969.3	998.5	1013.1	962.0	932.8	925.5	938.3
50°	4382.8	3373.3	1215.7	916.3	857.9	879.8	870.7	868.9	839.7	843.3	850.6
52.5°	5259.0	3942.9	1193.8	867.1	794.0	799.5	790.4	794.0	788.6	806.8	812.3
55°	6213.7	4543.4	1221.2	874.4	750.2	711.9	715.6	733.8	755.7	784.9	790.4
57.5°	6927.4	4844.6	1292.4	923.7	695.5	637.1	646.2	680.9	722.9	746.6	759.4
60°	7458.6	4808.1	1396.4	936.4	629.8	569.5	586.0	637.1	673.6	693.7	706.4
62.5°	7632.0	4579.9	1422.0	843.3	544.0	505.6	545.8	598.7	615.2	637.1	646.2
65°	7489.6	4256.8	1235.8	684.5	478.3	458.2	516.6	556.7	578.7	589.6	591.4
66°	7321.7	4063.3	1135.4	622.5	454.5	443.6	505.6	538.5	560.4	558.6	560.4
67.5°	6952.9	3658.1	972.9	534.8	419.8	421.7	487.4	509.3	516.6	511.1	511.1
70°	5698.9	2575.6	697.3	405.2	368.7	394.3	438.1	443.6	460.0	452.7	452.7
72.5°	3513.9	1265.0	467.3	310.3	328.6	368.7	366.9	385.2	423.5	434.4	441.7
75°	1726.8	512.9	308.5	262.9	293.9	308.5	304.8	350.5	405.2	452.7	469.1
77.5°	655.3	255.6	215.4	230.0	237.3	231.8	242.8	317.6	405.2	491.0	507.5
80°	202.6	177.1	169.8	189.8	178.9	169.8	182.5	262.9	343.2	372.4	372.4
82.5°	122.3	138.7	131.4	129.6	120.5	122.3	131.4	188.0	264.7	277.5	277.5
85°	85.8	91.3	74.8	71.2	69.4	67.5	67.5	109.5	157.0	155.2	160.6
87.5°	32.9	36.5	27.4	27.4	25.6	18.3	14.6	18.3	18.3	12.8	9.1
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)