

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: P1211676

Luminaire Tested: **ARCH4-80-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-80-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 685mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10028 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 83.4
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

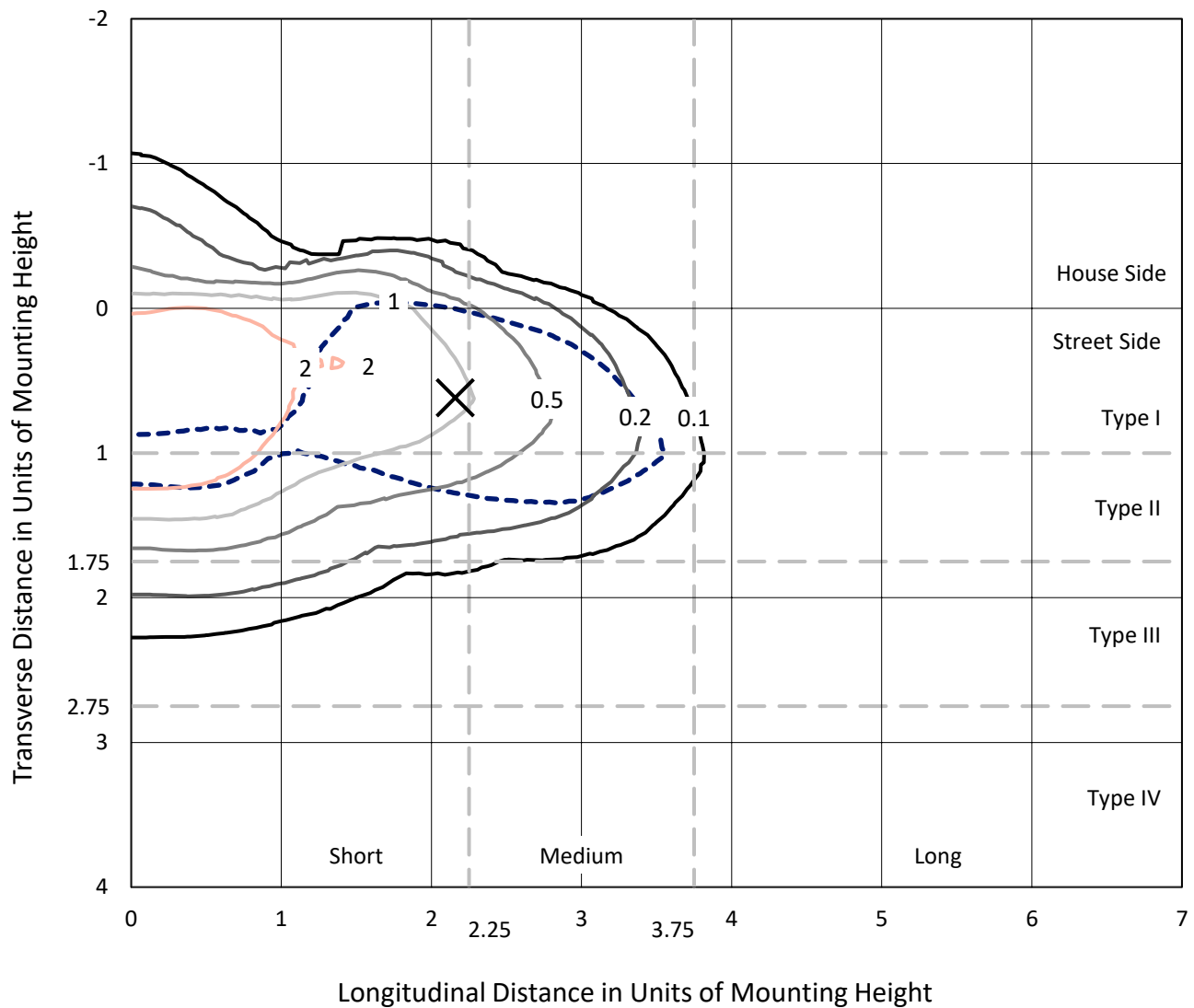


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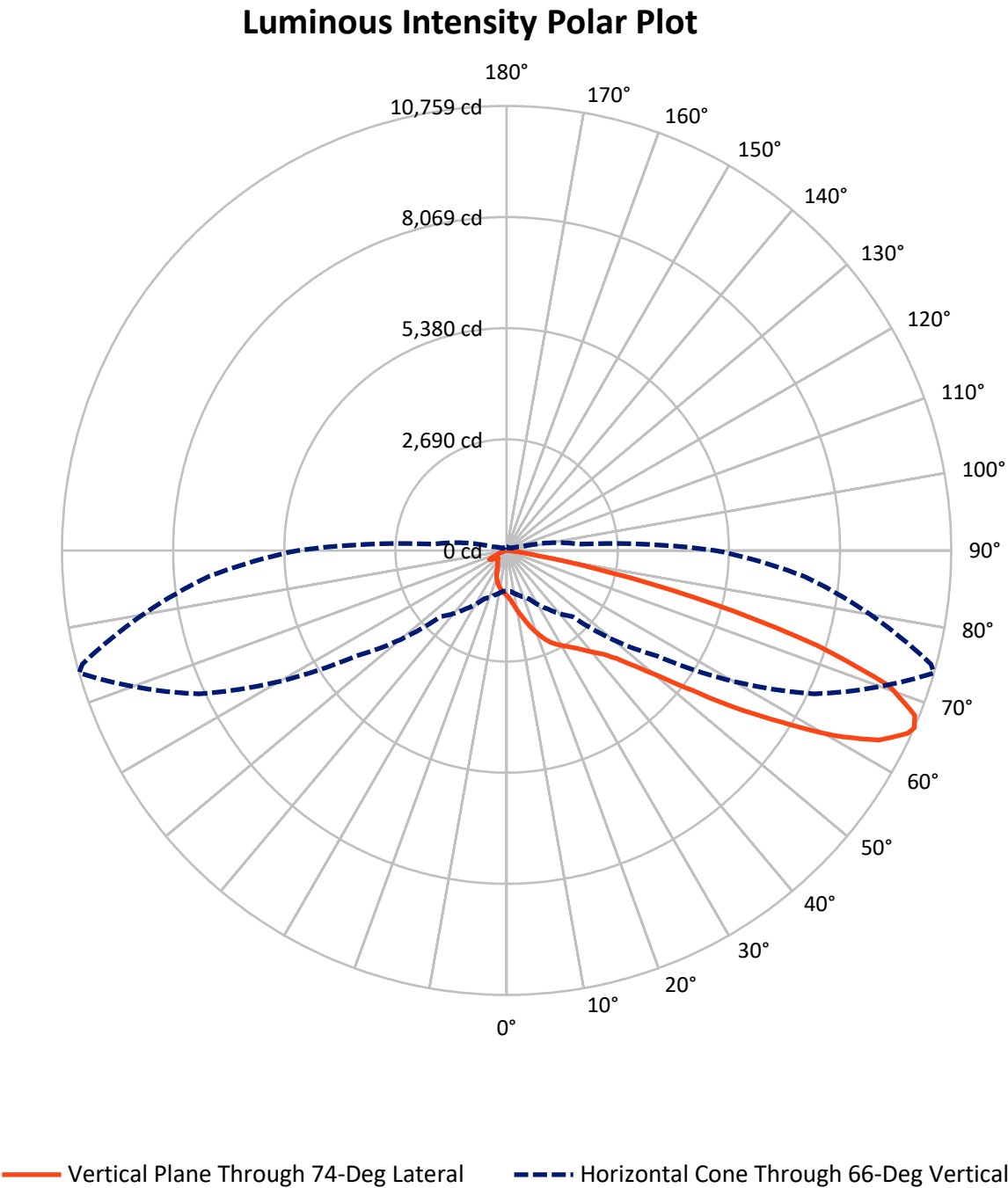
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
Type II - Short - N/A

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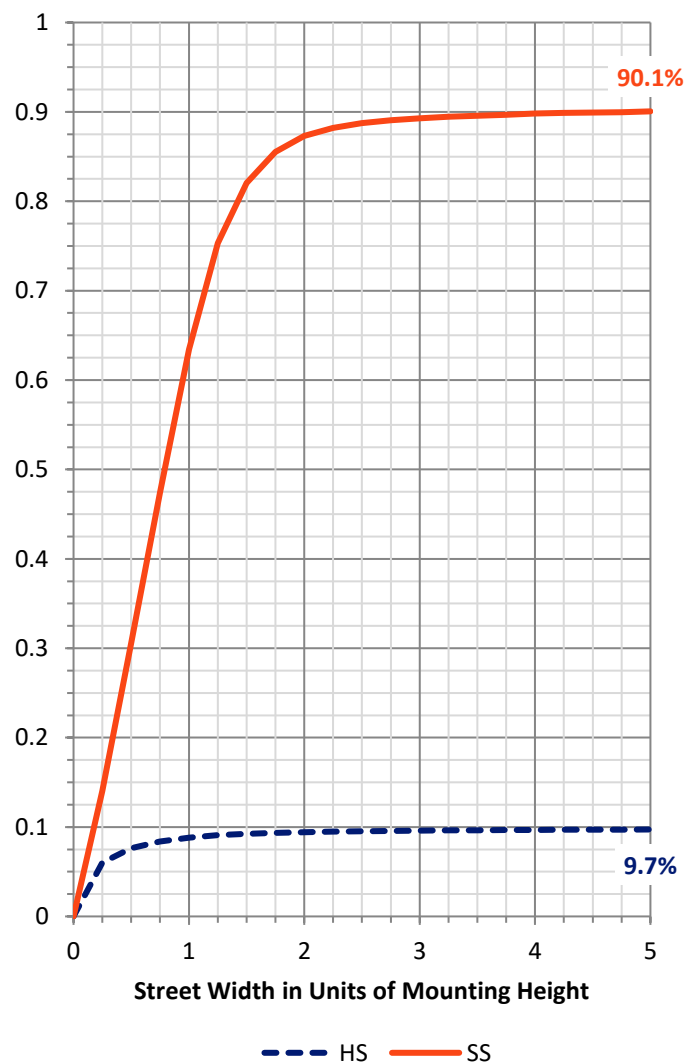
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	983.0	0.0	983.0
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	9044.9	0.0	9044.9
	% Fixture	90.2	0.0	90.2
Total	Lumens	10028.0	0.0	10028.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	1.1
10°-20°	342.5	3.4
20°-30°	653.7	6.5
30°-40°	1145.8	11.4
40°-50°	1964.7	19.6
50°-60°	2555.2	25.5
60°-70°	2313.1	23.1
70°-80°	892.5	8.9
80°-90°	53.7	0.5
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°	10028.0	100.0
0°-180°	10028.0	100.0

Coefficient of Utilization



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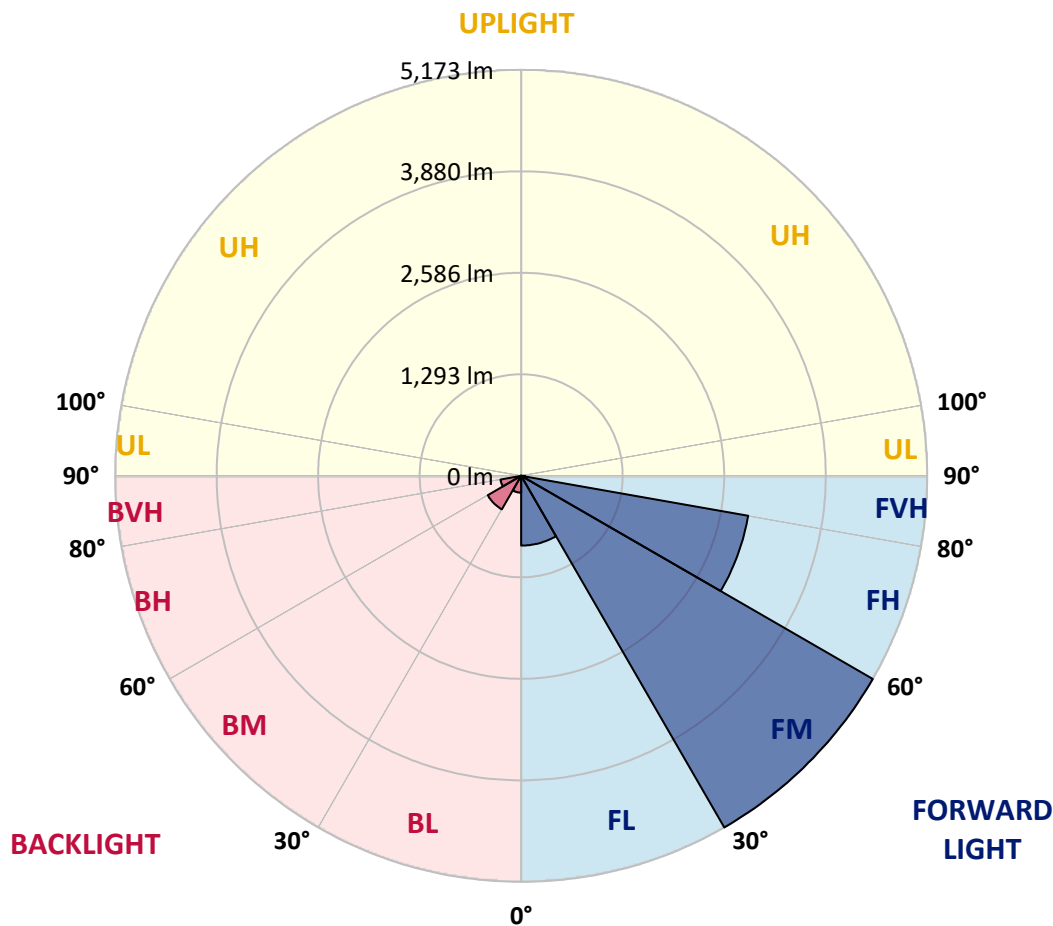
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	888.6	8.9			
FM	(30°-60°)	5172.9	51.6			
FH	(60°-80°)	2936.9	29.3			G2/5000
FVH	(80°-90°)	46.5	0.5			G1/100
BL	(0°-30°)	214.4	2.1	B1/500		
BM	(30°-60°)	492.7	4.9	B1/1000		
BH	(60°-80°)	268.7	2.7	B1/500		G1/500
BVH	(80°-90°)	7.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1094.6	1094.6	1094.6	1094.6	1094.6	1094.6	1094.6	1094.6	1094.6	1094.6	1094.6
2.5°	1314.3	1303.5	1283.7	1281.9	1265.7	1245.9	1211.7	1175.7	1150.5	1146.9	1116.2
5°	1573.5	1568.1	1548.3	1535.7	1505.1	1458.3	1379.1	1299.9	1233.3	1226.1	1157.7
7.5°	1642.0	1645.6	1649.2	1661.8	1651.0	1629.4	1569.9	1458.3	1353.9	1337.7	1218.9
10°	1652.8	1649.2	1649.2	1665.4	1696.0	1726.6	1719.4	1624.0	1488.9	1469.1	1303.5
12.5°	1769.8	1775.2	1762.6	1755.4	1750.0	1766.2	1820.2	1778.8	1631.2	1615.0	1406.1
15°	1921.0	1919.2	1901.2	1901.2	1885.0	1858.0	1892.2	1922.8	1802.2	1782.4	1523.1
17.5°	2030.9	2038.1	2036.3	2047.1	2041.7	2005.6	1987.6	2050.7	1978.6	1953.4	1656.4
20°	2119.1	2138.9	2146.1	2180.3	2196.5	2171.3	2124.5	2164.1	2147.9	2124.5	1791.4
22.5°	2212.7	2228.9	2241.5	2300.9	2345.9	2340.5	2281.1	2272.1	2311.7	2290.1	1924.6
25°	2306.3	2313.5	2351.3	2423.3	2495.4	2513.4	2452.1	2381.9	2459.3	2439.5	2043.5
27.5°	2408.9	2412.5	2457.5	2545.8	2646.6	2684.4	2635.8	2506.2	2572.8	2572.8	2151.5
30°	2596.2	2632.2	2650.2	2729.4	2817.6	2869.8	2812.2	2637.6	2673.6	2689.8	2264.9
32.5°	2999.5	3004.9	2999.5	3033.7	3051.7	3082.3	3015.7	2785.2	2776.2	2794.2	2376.5
35°	3615.2	3593.6	3536.0	3485.6	3381.2	3323.5	3237.1	2974.3	2902.2	2927.4	2486.4
37.5°	4362.4	4331.8	4200.3	4045.5	3822.2	3591.8	3483.8	3204.7	3062.5	3094.9	2605.2
40°	5075.3	5055.5	4898.9	4708.0	4326.4	3932.1	3703.4	3399.2	3240.7	3253.3	2725.8
42.5°	5662.3	5658.7	5527.2	5327.4	4837.7	4299.4	3962.7	3590.0	3428.0	3447.8	2851.8
45°	6107.0	6072.7	5975.5	5831.5	5332.8	4681.0	4275.9	3879.9	3728.6	3752.0	3040.9
47.5°	6107.0	6112.4	6175.4	6161.0	5678.5	5039.3	4618.0	4245.3	4173.3	4194.9	3352.3
50°	5610.0	5660.5	5941.3	6177.2	5858.5	5318.4	4987.1	4702.6	4776.5	4808.9	3896.1
52.5°	4627.0	4711.6	5199.6	5737.9	5725.3	5458.8	5368.8	5284.2	5615.4	5673.1	4699.0
55°	3516.2	3572.0	4207.5	4915.1	5145.5	5343.6	5701.9	6022.3	6726.3	6713.7	5514.6
57.5°	2626.8	2679.0	3226.3	4011.3	4315.6	4844.9	5872.9	6866.7	7828.1	7876.7	6279.8
60°	1931.8	1971.4	2437.7	3082.3	3521.6	4081.5	5804.5	7698.5	9097.4	9041.6	6954.9
62.5°	1429.5	1451.1	1787.8	2207.3	2790.6	3325.3	5374.2	8267.4	10111.0	9997.6	7331.2
65°	1105.4	1112.6	1287.3	1510.5	2029.1	2585.4	4733.3	8353.9	10671.0	10550.3	7324.0
66°	984.8	990.2	1118.0	1290.9	1726.6	2263.1	4452.4	8215.2	10759.2	10631.4	7234.0
67.5°	826.4	822.8	898.4	1011.8	1296.3	1746.4	3953.7	7810.1	10654.8	10589.9	6945.9
70°	612.1	613.9	651.7	678.8	758.0	966.8	2855.4	6774.9	9819.4	9815.8	6155.6
72.5°	453.7	459.1	487.9	493.3	473.5	523.9	1645.6	5388.6	7855.1	7856.9	4601.8
75°	340.3	349.3	358.3	361.9	343.9	331.3	743.6	3626.0	5167.1	5129.3	2605.2
77.5°	259.3	262.9	270.1	264.7	261.1	228.7	309.7	1768.0	2551.2	2324.3	844.4
80°	189.0	189.0	196.2	189.0	187.2	163.8	169.2	567.1	749.0	622.9	181.8
82.5°	118.8	117.0	122.4	120.6	117.0	104.4	99.0	158.4	172.8	154.8	88.2
85°	66.6	64.8	63.0	61.2	55.8	46.8	54.0	59.4	79.2	81.0	63.0
87.5°	23.4	23.4	21.6	19.8	16.2	16.2	19.8	19.8	28.8	28.8	32.4
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°	1094.6	1094.6	1094.6	1094.6	1094.6	1094.6	1094.6	1094.6	1094.6	1094.6	1094.6
2.5°	1101.8	1082.0	1053.2	1015.4	988.4	961.4	932.6	916.4	893.0	887.6	894.8
5°	1121.6	1085.6	1013.6	934.4	866.0	804.8	747.2	713.0	678.8	666.1	671.5
7.5°	1163.1	1101.8	979.4	851.6	738.2	646.3	577.9	538.3	507.7	495.1	498.7
10°	1224.3	1130.7	947.0	758.0	612.1	514.9	457.3	432.1	414.1	406.9	408.7
12.5°	1298.1	1172.1	905.6	664.3	504.1	419.5	392.5	387.1	383.5	379.9	381.7
15°	1380.9	1208.1	857.0	572.5	419.5	372.7	363.7	361.9	360.1	360.1	360.1
17.5°	1467.3	1240.5	803.0	486.1	365.5	343.9	338.5	338.5	338.5	340.3	340.3
20°	1548.3	1265.7	740.0	408.7	334.9	316.9	313.3	313.3	315.1	316.9	316.9
22.5°	1627.6	1276.5	666.1	354.7	309.7	293.5	288.1	288.1	288.1	289.9	289.9
25°	1696.0	1276.5	592.3	320.5	288.1	271.9	264.7	262.9	264.7	264.7	264.7
27.5°	1753.6	1271.1	520.3	297.1	266.5	250.3	243.1	241.3	244.9	246.7	246.7
30°	1814.8	1263.9	462.7	275.5	248.5	232.3	225.0	225.0	230.5	237.7	237.7
32.5°	1874.2	1269.3	417.7	257.5	230.5	217.8	210.6	212.4	223.2	234.1	234.1
35°	1937.2	1280.1	390.7	244.9	217.8	205.2	199.8	205.2	216.0	226.9	226.9
37.5°	2000.2	1292.7	374.5	234.1	207.0	194.4	190.8	198.0	210.6	221.4	223.2
40°	2066.9	1303.5	356.5	223.2	199.8	185.4	183.6	190.8	207.0	217.8	219.6
42.5°	2149.7	1325.1	334.9	214.2	192.6	174.6	176.4	181.8	198.0	214.2	216.0
45°	2311.7	1393.5	313.3	205.2	183.6	169.2	165.6	169.2	187.2	205.2	208.8
47.5°	2616.0	1548.3	289.9	196.2	174.6	165.6	151.2	154.8	171.0	190.8	192.6
50°	3199.3	1877.8	277.3	187.2	167.4	153.0	136.8	136.8	149.4	167.4	167.4
52.5°	4108.5	2468.3	284.5	180.0	158.4	140.4	124.2	122.4	129.6	142.2	142.2
55°	5089.7	3116.5	311.5	172.8	147.6	133.2	115.2	106.2	111.6	118.8	118.8
57.5°	5867.5	3442.4	385.3	169.2	135.0	127.8	104.4	91.8	97.2	104.4	104.4
60°	6209.6	3251.5	468.1	172.8	126.0	118.8	93.6	81.0	90.0	97.2	99.0
62.5°	5932.3	2677.2	502.3	163.8	113.4	106.2	91.8	75.6	86.4	91.8	93.6
65°	5332.8	2034.5	392.5	142.2	104.4	91.8	82.8	72.0	81.0	86.4	86.4
66°	5048.3	1773.4	334.9	131.4	100.8	86.4	79.2	72.0	79.2	82.8	84.6
67.5°	4607.2	1398.9	248.5	115.2	93.6	79.2	73.8	68.4	75.6	79.2	79.2
70°	3602.6	833.6	149.4	90.0	81.0	70.2	66.6	63.0	68.4	70.2	70.2
72.5°	2255.9	396.1	95.4	66.6	68.4	66.6	55.8	59.4	61.2	63.0	63.0
75°	1092.8	156.6	64.8	48.6	55.8	63.0	45.0	52.2	54.0	57.6	55.8
77.5°	304.3	75.6	41.4	36.0	48.6	48.6	34.2	41.4	48.6	61.2	55.8
80°	88.2	48.6	27.0	27.0	34.2	34.2	23.4	28.8	32.4	36.0	37.8
82.5°	61.2	32.4	18.0	19.8	19.8	21.6	14.4	14.4	18.0	18.0	19.8
85°	48.6	14.4	10.8	12.6	9.0	10.8	7.2	7.2	9.0	7.2	7.2
87.5°	19.8	7.2	7.2	7.2	5.4	5.4	3.6	1.8	1.8	1.8	1.8
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)