

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: P1211030

Luminaire Tested: **ARCH4-150-722-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211030
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-150-722-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14842 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

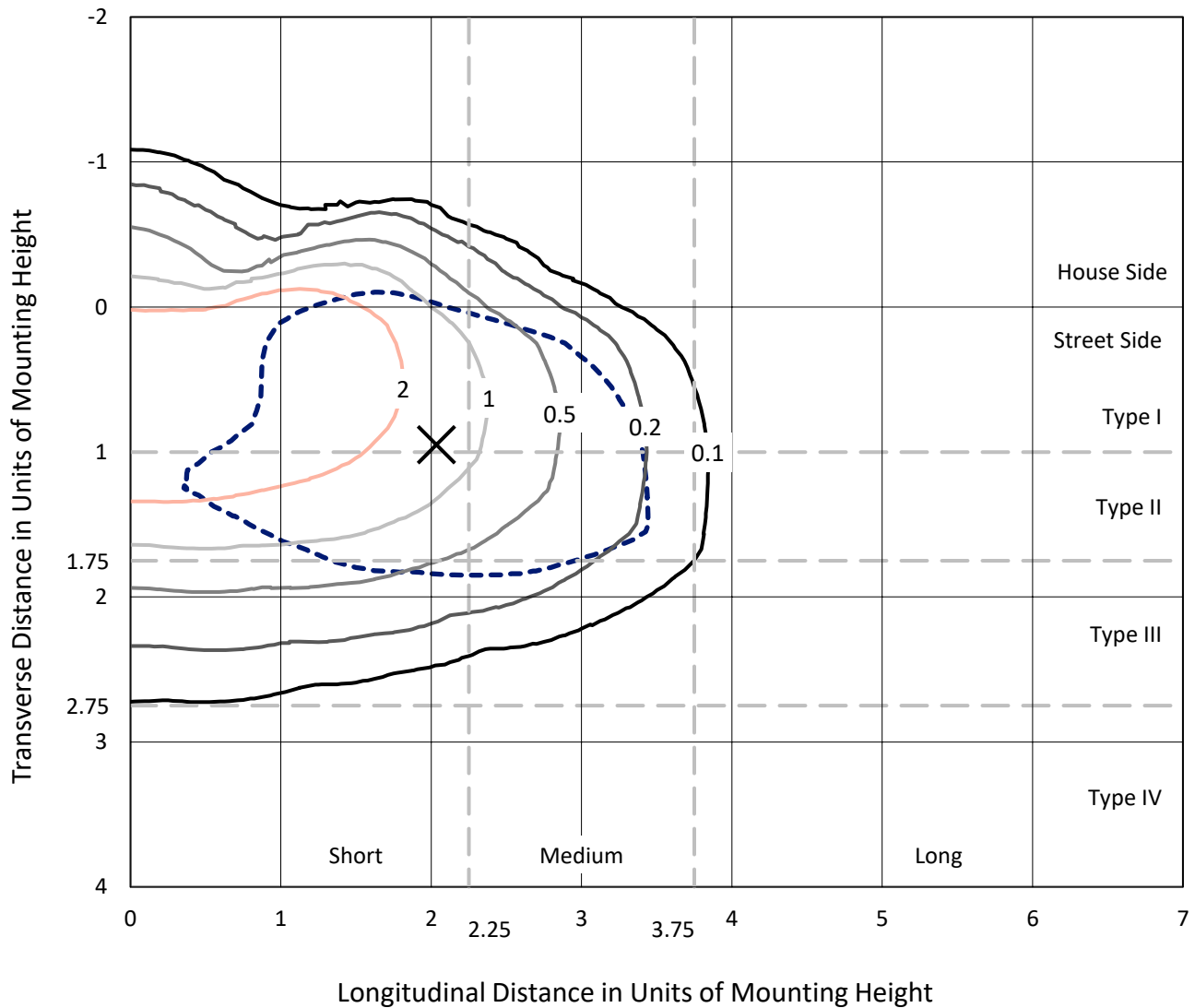
Input Watts (W): 150.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

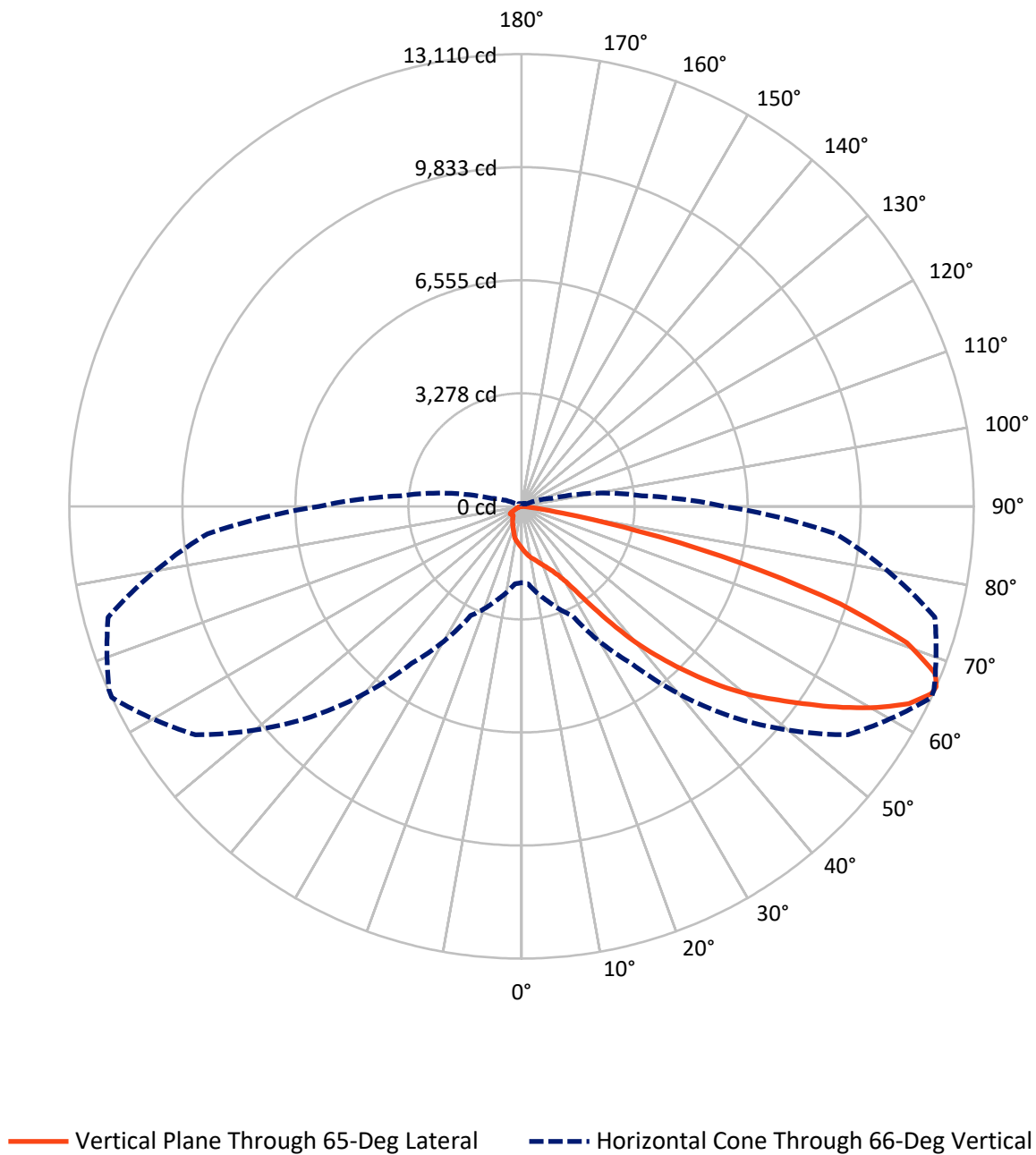
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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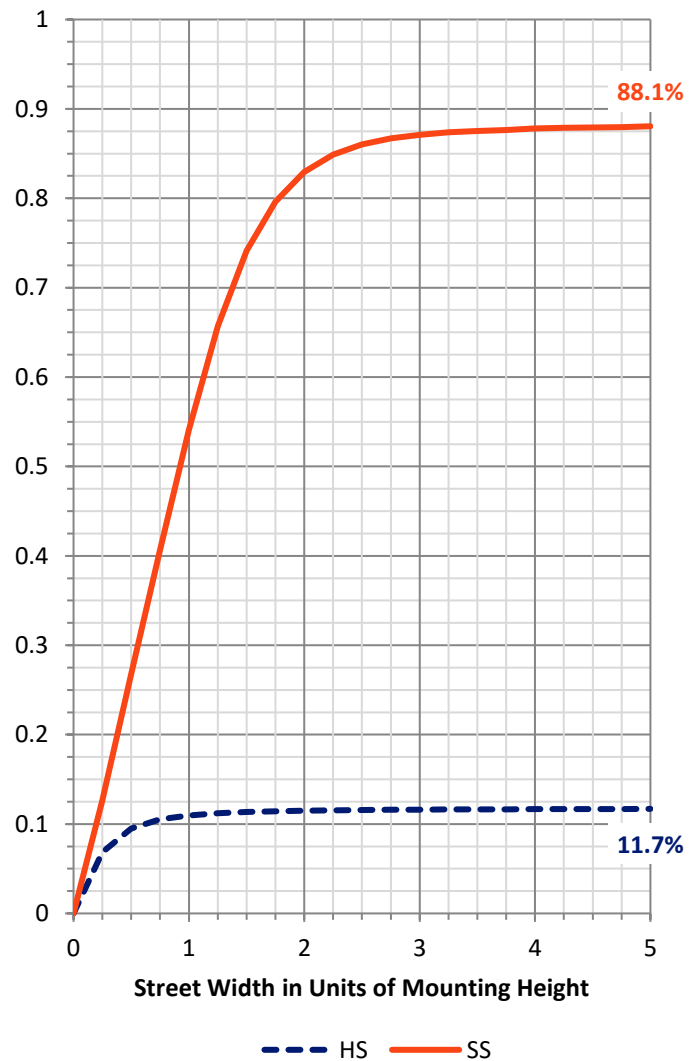
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1751.7	0.0	1751.7
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	13090.3	0.0	13090.3
	% Fixture	88.2	0.0	88.2
Total	Lumens	14842.0	0.0	14842.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.6	0.8
10°-20°	339.4	2.3
20°-30°	621.1	4.2
30°-40°	1262.1	8.5
40°-50°	2665.2	18.0
50°-60°	4097.3	27.6
60°-70°	4124.2	27.8
70°-80°	1541.0	10.4
80°-90°	77.0	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°	14842.0	100.0
0°-180°	14842.0	100.0

Coefficient of Utilization



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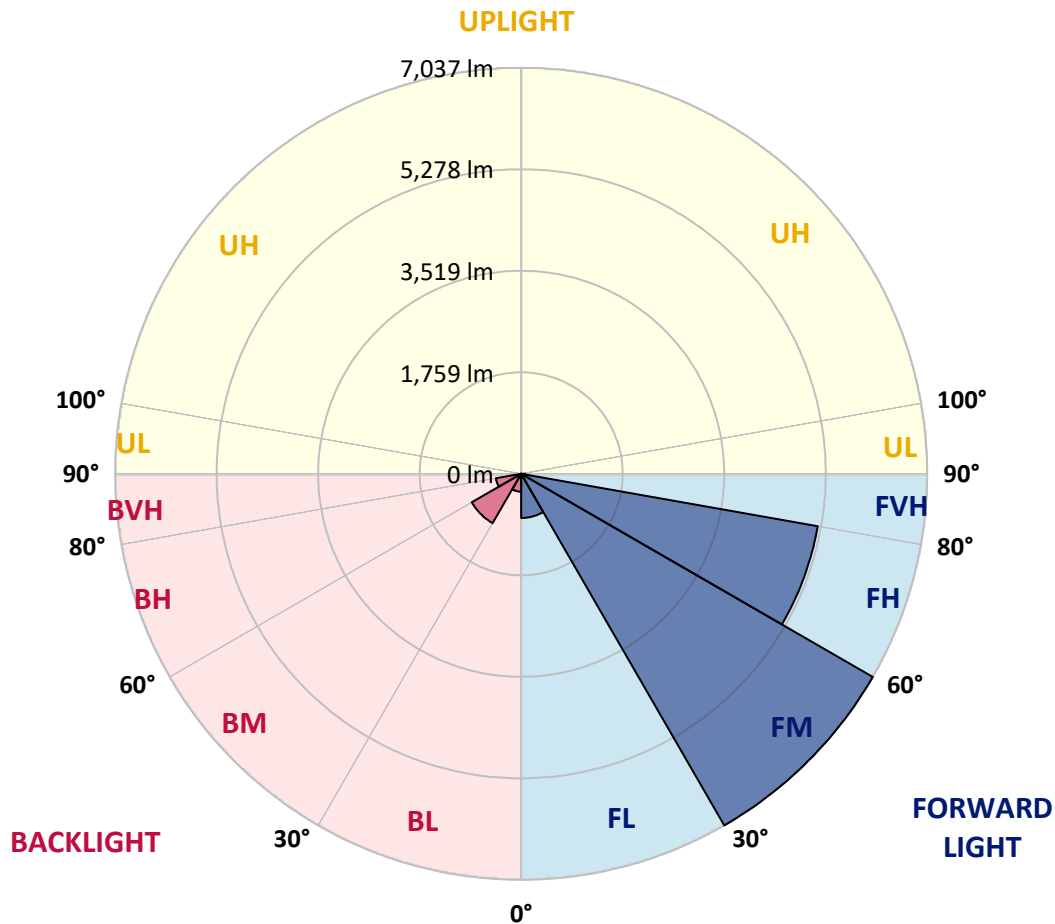
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	765.1	5.2			
FM	(30°-60°)	7037.0	47.4			
FH	(60°-80°)	5220.3	35.2			G3/7500
FVH	(80°-90°)	67.9	0.5			G1/100
BL	(0°-30°)	310.0	2.1	B1/500		
BM	(30°-60°)	987.6	6.7	B1/1000		
BH	(60°-80°)	445.0	3.0	B1/500		G1/500
BVH	(80°-90°)	9.1	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2
2.5°	1378.9	1381.6	1376.2	1365.4	1354.6	1341.2	1319.6	1284.6	1279.2	1255.0	1228.1
5°	1473.1	1478.5	1470.4	1467.7	1462.4	1443.5	1413.9	1362.7	1357.3	1308.9	1246.9
7.5°	1505.4	1513.5	1508.1	1508.1	1508.1	1500.1	1486.6	1440.8	1432.7	1370.8	1276.5
10°	1529.7	1535.1	1532.4	1543.2	1551.2	1545.8	1537.8	1510.8	1502.8	1440.8	1316.9
12.5°	1567.4	1570.1	1572.8	1578.2	1591.6	1597.0	1594.3	1570.1	1564.7	1521.6	1368.1
15°	1602.4	1602.4	1605.1	1629.3	1648.2	1659.0	1661.6	1642.8	1637.4	1602.4	1432.7
17.5°	1634.7	1637.4	1645.5	1672.4	1704.7	1726.3	1739.7	1731.7	1723.6	1696.7	1508.1
20°	1683.2	1688.6	1696.7	1734.4	1766.7	1801.7	1828.6	1825.9	1823.2	1804.4	1597.0
22.5°	1766.7	1772.1	1785.5	1820.5	1852.9	1895.9	1941.7	1939.0	1931.0	1917.5	1702.0
25°	1893.3	1893.3	1901.3	1931.0	1971.4	2022.5	2065.6	2073.7	2065.6	2057.5	1834.0
27.5°	2052.1	2054.8	2054.8	2087.2	2124.9	2189.5	2243.4	2251.4	2251.4	2243.4	2011.8
30°	2273.0	2264.9	2259.5	2286.4	2326.8	2421.1	2515.4	2531.5	2523.4	2536.9	2262.2
32.5°	2652.7	2639.2	2593.5	2598.8	2623.1	2752.4	2911.2	2967.8	2965.1	2989.3	2666.2
35°	3177.9	3150.9	3083.6	3027.1	3024.4	3164.4	3406.8	3619.5	3616.8	3700.3	3280.2
37.5°	3770.4	3805.4	3678.8	3581.8	3552.2	3662.6	3975.0	4435.5	4459.8	4605.2	4085.4
40°	4562.1	4583.7	4422.1	4284.7	4144.7	4185.1	4597.1	5313.5	5356.6	5518.2	4890.7
42.5°	5251.6	5273.1	5178.8	5011.9	4834.1	4758.7	5224.6	6110.7	6145.7	6369.2	5720.2
45°	5720.2	5736.3	5768.6	5784.8	5582.8	5426.6	5992.2	6929.4	6972.5	7231.0	6530.8
47.5°	6086.4	6099.9	6164.5	6326.1	6285.7	6161.8	6773.2	7780.4	7791.2	8079.3	7319.9
50°	6256.1	6288.4	6447.3	6695.1	6872.8	6907.8	7621.5	8585.6	8615.3	8889.9	8065.9
52.5°	6067.6	6078.3	6479.6	6945.5	7303.7	7659.2	8472.5	9331.6	9417.8	9622.5	8736.4
55°	5432.0	5510.1	6118.7	6937.4	7643.0	8372.9	9382.8	10136.9	10215.0	10344.2	9326.2
57.5°	4694.1	4780.3	5520.9	6590.0	7788.5	9032.7	10225.7	10993.3	11047.1	11082.1	9867.5
60°	4055.8	4136.6	4898.8	5924.8	7643.0	9498.6	11009.4	11844.3	11890.1	11795.8	10139.6
62.5°	3272.1	3352.9	4120.5	5044.2	7072.1	9592.9	11591.1	12601.1	12619.9	12364.1	9972.6
65°	2466.9	2520.7	3161.7	3953.5	6073.0	9091.9	11723.1	13072.3	13053.5	12528.3	9471.7
66°	2211.0	2256.8	2822.4	3495.7	5553.2	8634.1	11545.4	13110.0	13091.2	12407.1	9143.1
67.5°	1906.7	1920.2	2386.1	2860.1	4645.6	7661.9	11004.0	12937.7	12953.8	12073.2	8542.5
70°	1489.3	1486.6	1755.9	1990.2	3172.5	5450.9	9178.1	11852.4	11930.5	10812.8	7284.9
72.5°	953.4	921.0	1077.2	1217.3	1847.5	3164.4	6692.4	9660.2	9792.1	8494.1	5426.6
75°	568.2	535.9	573.6	608.6	886.0	1521.6	3934.6	6573.9	6700.5	5445.5	3229.0
77.5°	425.5	412.0	414.7	385.1	393.2	570.9	1796.3	3474.1	3565.7	2229.9	1225.4
80°	325.9	290.9	272.0	285.5	258.5	226.2	667.9	1195.7	1252.3	527.8	255.8
82.5°	218.1	188.5	175.1	191.2	164.3	126.6	161.6	231.6	226.2	142.7	99.6
85°	113.1	97.0	97.0	97.0	83.5	61.9	70.0	94.3	94.3	75.4	59.2
87.5°	32.3	29.6	35.0	32.3	24.2	24.2	26.9	32.3	32.3	29.6	26.9
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°	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2
2.5°	1206.5	1195.7	1166.1	1144.6	1123.0	1104.2	1082.6	1077.2	1066.5	1069.2	1063.8
5°	1214.6	1185.0	1133.8	1085.3	1047.6	1015.3	974.9	958.7	937.2	929.1	923.7
7.5°	1225.4	1182.3	1106.9	1039.5	974.9	910.3	845.6	807.9	783.7	772.9	764.8
10°	1249.6	1193.0	1093.4	988.4	878.0	786.4	721.8	694.8	678.7	676.0	673.3
12.5°	1281.9	1209.2	1079.9	923.7	778.3	692.1	651.7	643.7	641.0	641.0	638.3
15°	1330.4	1236.1	1058.4	848.3	700.2	641.0	622.1	608.6	603.3	603.3	603.3
17.5°	1378.9	1268.5	1026.1	770.2	646.3	608.6	589.8	581.7	576.3	579.0	576.3
20°	1440.8	1306.2	983.0	702.9	611.3	581.7	562.9	554.8	552.1	552.1	552.1
22.5°	1510.8	1349.2	929.1	651.7	581.7	554.8	535.9	527.8	522.5	525.2	525.2
25°	1605.1	1403.1	872.6	600.6	552.1	527.8	506.3	495.5	495.5	498.2	500.9
27.5°	1726.3	1467.7	816.0	568.2	525.2	500.9	476.7	465.9	468.6	474.0	474.0
30°	1904.0	1556.6	759.5	533.2	495.5	468.6	447.1	436.3	441.7	452.4	452.4
32.5°	2157.2	1702.0	711.0	492.8	452.4	422.8	401.3	393.2	406.7	428.2	428.2
35°	2609.6	1968.7	681.4	452.4	406.7	371.6	344.7	336.6	355.5	382.4	382.4
37.5°	3215.6	2396.9	692.1	417.4	369.0	328.6	298.9	288.2	301.6	325.9	333.9
40°	3891.5	2913.9	786.4	387.8	333.9	293.5	263.9	253.2	261.2	272.0	274.7
42.5°	4567.5	3463.3	964.1	366.3	307.0	263.9	237.0	228.9	234.3	237.0	239.7
45°	5240.8	4007.3	1187.7	352.8	282.8	239.7	212.8	212.8	215.4	215.4	215.4
47.5°	5879.1	4537.9	1422.0	350.1	261.2	215.4	193.9	196.6	196.6	199.3	199.3
50°	6482.3	5011.9	1659.0	358.2	242.4	193.9	177.7	177.7	177.7	180.4	177.7
52.5°	6985.9	5426.6	1906.7	371.6	223.5	177.7	161.6	161.6	161.6	164.3	161.6
55°	7462.6	5803.6	2159.9	390.5	207.4	164.3	148.1	142.7	142.7	145.4	142.7
57.5°	7850.4	6054.1	2399.6	393.2	193.9	150.8	137.3	129.3	129.3	129.3	129.3
60°	7866.6	5908.7	2469.6	344.7	177.7	137.3	123.9	113.1	115.8	115.8	115.8
62.5°	7352.2	5143.8	1984.8	258.5	158.9	123.9	113.1	102.3	102.3	102.3	102.3
65°	6342.3	4002.0	1163.4	204.7	137.3	110.4	99.6	91.6	91.6	91.6	88.9
66°	5868.3	3509.1	891.4	185.8	129.3	107.7	97.0	88.9	86.2	83.5	83.5
67.5°	5095.4	2773.9	557.5	164.3	118.5	99.6	88.9	80.8	78.1	75.4	75.4
70°	3837.7	1761.3	272.0	126.6	102.3	86.2	78.1	70.0	67.3	64.6	61.9
72.5°	2693.1	1031.5	142.7	97.0	83.5	75.4	67.3	59.2	56.6	53.9	53.9
75°	1521.6	498.2	94.3	70.0	67.3	61.9	56.6	48.5	45.8	45.8	45.8
77.5°	576.3	172.4	64.6	51.2	53.9	48.5	40.4	40.4	37.7	40.4	37.7
80°	150.8	75.4	40.4	37.7	40.4	35.0	29.6	32.3	32.3	32.3	32.3
82.5°	80.8	43.1	24.2	26.9	24.2	24.2	18.9	21.5	24.2	21.5	24.2
85°	56.6	21.5	13.5	13.5	10.8	10.8	8.1	10.8	13.5	10.8	10.8
87.5°	29.6	8.1	8.1	8.1	8.1	5.4	2.7	0.0	2.7	2.7	2.7
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)