

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: P1210299

Luminaire Tested: **ARCH2-80-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-80-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10739 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 84.3
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

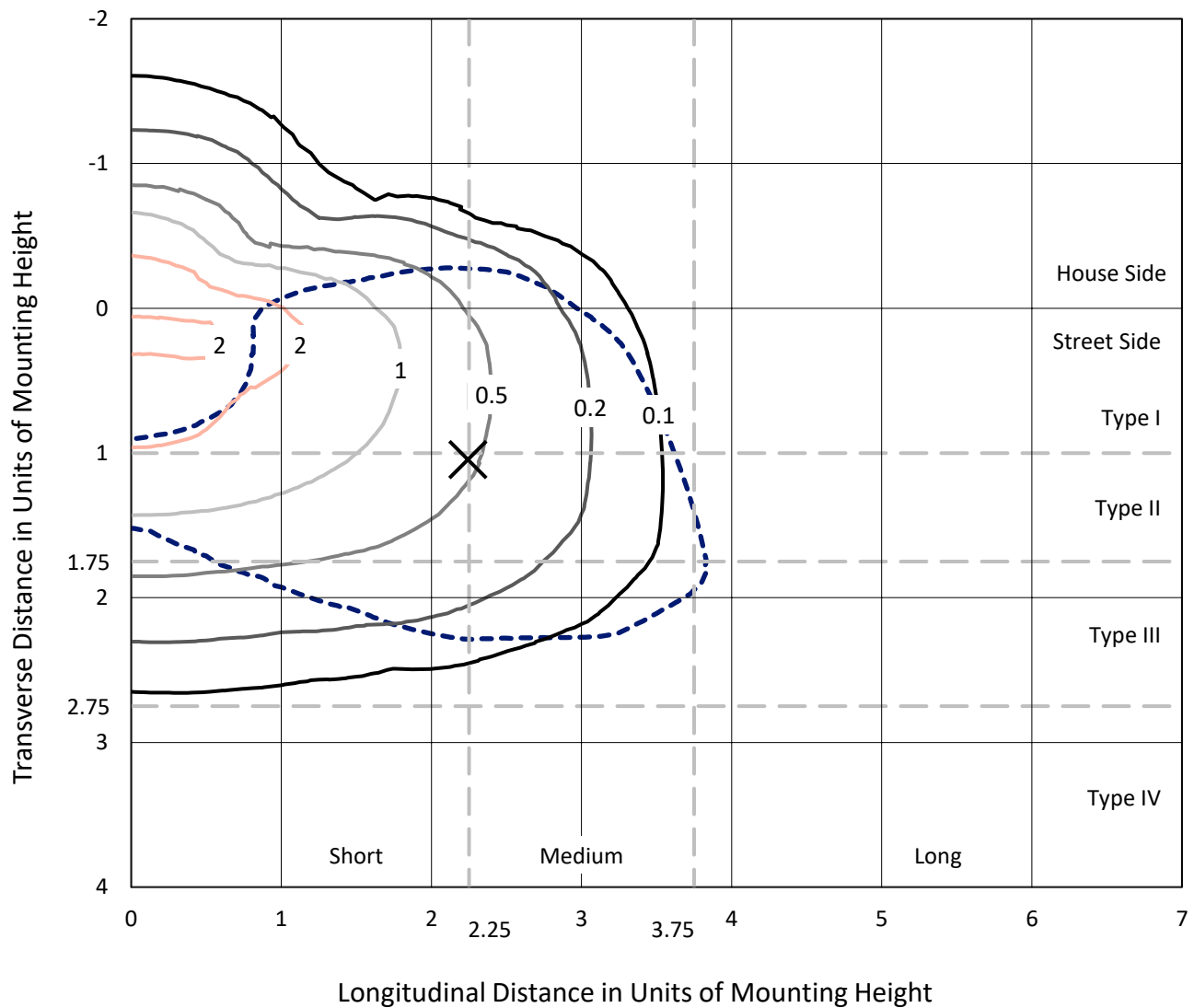


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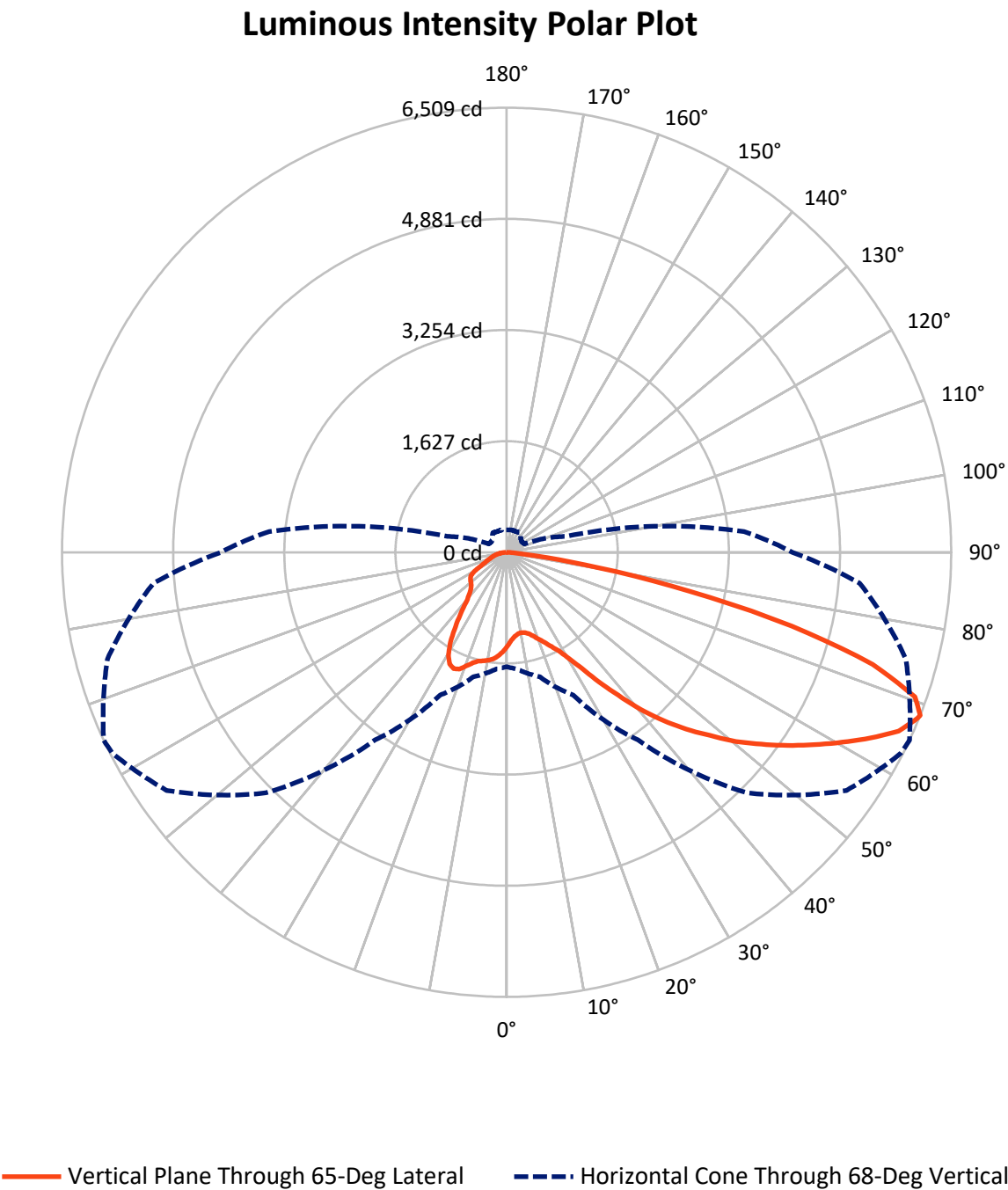
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
Type III - Short - N/A

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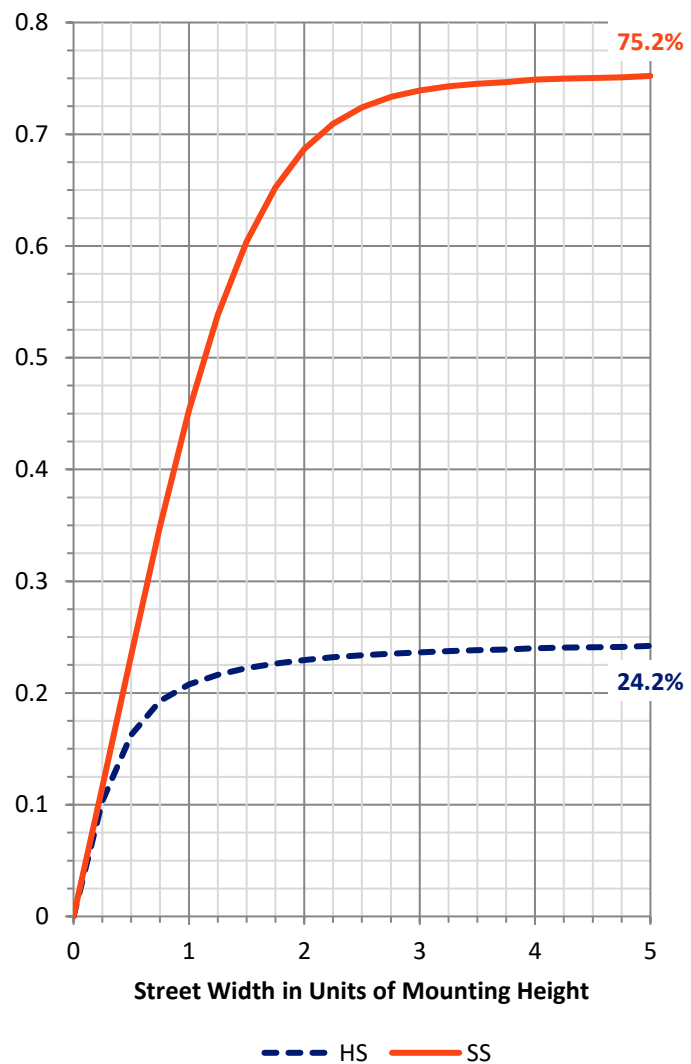
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2632.9	0.0	2632.9
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	8106.1	0.0	8106.1
	% Fixture	75.5	0.0	75.5
Total	Lumens	10739.0	0.0	10739.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.2	1.2
10°-20°	427.0	4.0
20°-30°	772.9	7.2
30°-40°	1215.8	11.3
40°-50°	1810.8	16.9
50°-60°	2375.5	22.1
60°-70°	2597.7	24.2
70°-80°	1285.4	12.0
80°-90°	122.6	1.1
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°	10739.0	100.0
0°-180°	10739.0	100.0

Coefficient of Utilization



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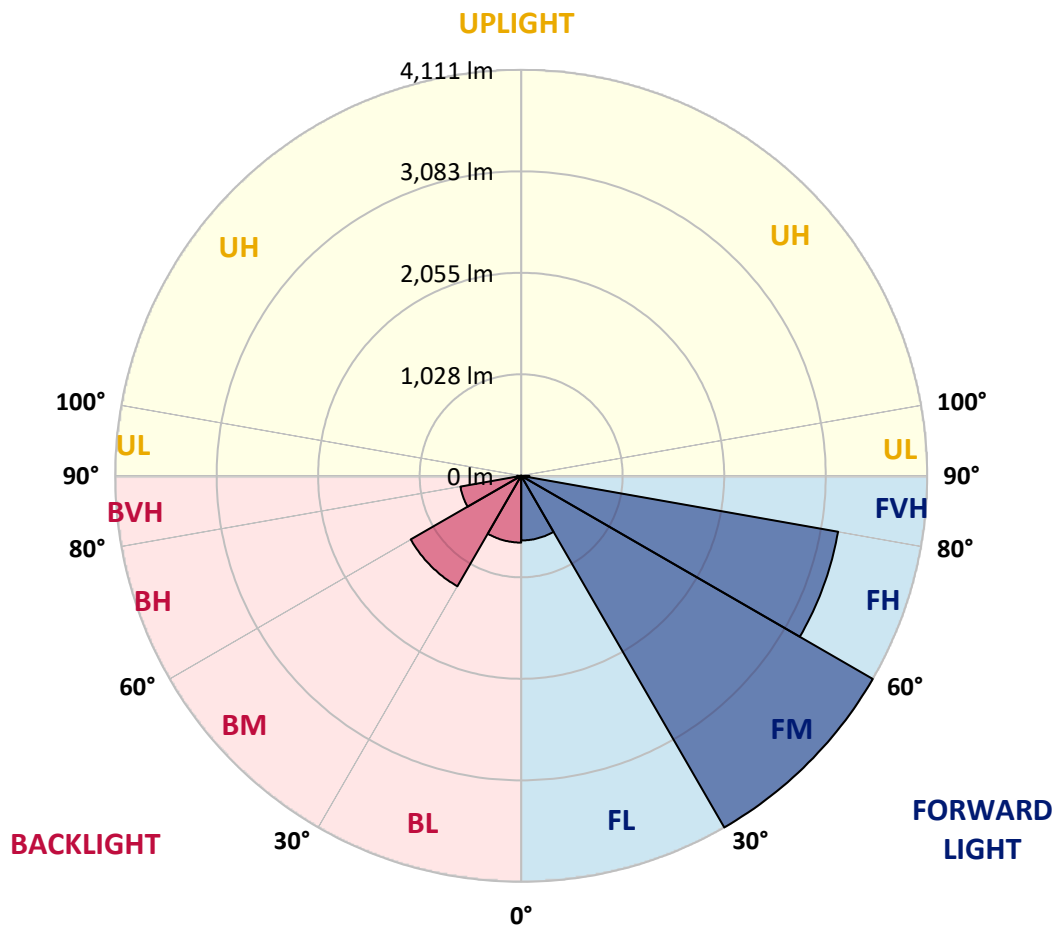
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	654.7	6.1			
FM	(30°-60°)	4110.7	38.3			
FH	(60°-80°)	3258.2	30.3			G2/5000
FVH	(80°-90°)	82.5	0.8			G1/100
BL	(0°-30°)	676.4	6.3	B2/1000		
BM	(30°-60°)	1291.4	12.0	B2/2500		
BH	(60°-80°)	624.9	5.8	B2/1000		G2/1000
BVH	(80°-90°)	40.1	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3
2.5°	1197.8	1195.1	1202.0	1208.9	1224.1	1242.1	1267.1	1287.8	1290.6	1329.4	1359.9
5°	1127.2	1123.1	1130.0	1138.3	1145.2	1167.4	1193.7	1224.1	1236.6	1293.4	1358.5
7.5°	1134.1	1132.7	1135.5	1132.7	1132.7	1142.4	1160.4	1190.9	1204.8	1272.6	1365.4
10°	1174.3	1177.1	1178.4	1170.1	1161.8	1157.7	1163.2	1184.0	1193.7	1274.0	1395.9
12.5°	1240.8	1244.9	1246.3	1231.1	1220.0	1202.0	1192.3	1200.6	1207.5	1287.8	1438.8
15°	1330.8	1333.5	1323.8	1314.2	1286.5	1264.3	1240.8	1233.8	1236.6	1316.9	1487.3
17.5°	1436.0	1431.9	1431.9	1408.3	1372.3	1337.7	1298.9	1293.4	1293.4	1364.0	1556.5
20°	1550.9	1555.1	1542.6	1510.8	1474.8	1420.8	1382.0	1357.1	1359.9	1418.0	1641.0
22.5°	1717.1	1724.0	1690.8	1645.1	1589.7	1527.4	1472.0	1431.9	1433.2	1488.6	1728.2
25°	1895.8	1898.5	1877.8	1816.8	1742.0	1653.4	1580.0	1528.8	1527.4	1567.6	1840.4
27.5°	2078.5	2091.0	2049.5	1991.3	1922.1	1811.3	1714.4	1645.1	1634.0	1688.0	1980.2
30°	2266.9	2282.1	2242.0	2185.2	2099.3	2005.2	1890.2	1809.9	1803.0	1875.0	2167.2
32.5°	2456.6	2460.7	2428.9	2381.8	2304.3	2215.6	2122.9	2034.2	2027.3	2145.0	2409.5
35°	2611.7	2624.2	2602.0	2590.9	2534.1	2452.4	2362.4	2311.2	2329.2	2480.1	2723.9
37.5°	2798.6	2811.1	2786.2	2783.4	2765.4	2694.8	2632.5	2636.6	2654.6	2859.6	3054.8
40°	3068.7	3082.5	3018.8	2991.1	2991.1	2921.9	2901.1	2999.4	3023.0	3233.5	3399.6
42.5°	3297.2	3319.3	3281.9	3263.9	3209.9	3161.4	3186.4	3324.8	3365.0	3590.7	3700.1
45°	3407.9	3424.6	3468.9	3521.5	3468.9	3384.4	3478.6	3635.0	3691.8	3920.3	4000.6
47.5°	3467.5	3482.7	3533.9	3675.2	3711.2	3640.6	3773.5	3968.8	4007.5	4247.1	4287.3
50°	3475.8	3524.3	3590.7	3732.0	3896.8	3906.5	4069.9	4308.0	4353.7	4568.4	4539.3
52.5°	3407.9	3427.3	3564.4	3802.6	3985.4	4151.6	4392.5	4633.5	4666.7	4870.3	4762.2
55°	3297.2	3324.8	3461.9	3786.0	4071.2	4384.2	4720.7	4953.3	4990.7	5163.8	4968.6
57.5°	3197.4	3211.3	3358.1	3737.5	4157.1	4616.8	5012.9	5287.1	5312.0	5421.4	5120.9
60°	3086.7	3101.9	3248.7	3633.7	4220.8	4792.7	5317.5	5623.6	5645.7	5692.8	5298.2
62.5°	2800.0	2840.2	3024.4	3461.9	4204.2	4993.5	5643.0	5955.9	5983.6	5932.4	5438.0
65°	2273.8	2330.6	2556.3	3072.8	4049.1	5123.7	5908.8	6262.0	6309.0	6112.4	5475.4
67.5°	1765.6	1805.7	1987.2	2438.6	3504.9	5058.6	6080.6	6472.4	6486.3	6083.3	5267.7
68°	1674.2	1714.4	1887.5	2305.7	3353.9	4981.0	6076.4	6478.0	6508.5	6051.5	5187.4
70°	1280.9	1326.6	1491.4	1826.5	2703.1	4488.1	5823.0	6345.0	6340.9	5666.5	4688.9
72.5°	800.4	826.7	940.3	1152.1	1787.7	3414.9	4942.3	5595.9	5607.0	4619.6	3596.3
75°	508.2	508.2	502.7	558.1	916.7	1945.6	3673.8	4308.0	4316.3	3234.8	2266.9
77.5°	441.7	429.3	369.7	313.0	365.6	756.1	2174.1	2782.0	2736.3	1742.0	1076.0
80°	372.5	351.7	303.3	252.0	235.4	236.8	835.0	1412.5	1351.5	627.3	357.3
82.5°	268.6	250.6	228.5	198.0	181.4	141.2	174.5	408.5	398.8	181.4	116.3
85°	145.4	131.6	128.8	130.2	109.4	87.2	73.4	90.0	90.0	78.9	66.5
87.5°	51.2	37.4	44.3	49.9	42.9	36.0	29.1	34.6	36.0	34.6	31.8
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°	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3
2.5°	1377.9	1391.7	1424.9	1454.0	1474.8	1492.8	1502.5	1506.6	1516.3	1517.7	1514.9
5°	1388.9	1424.9	1474.8	1517.7	1541.3	1550.9	1553.7	1555.1	1550.9	1553.7	1550.9
7.5°	1418.0	1463.7	1534.3	1571.7	1575.9	1560.6	1562.0	1556.5	1562.0	1567.6	1567.6
10°	1462.3	1520.5	1587.0	1600.8	1582.8	1574.5	1591.1	1624.3	1635.4	1650.7	1650.7
12.5°	1520.5	1589.7	1636.8	1624.3	1607.7	1635.4	1683.9	1717.1	1728.2	1733.7	1729.6
15°	1587.0	1661.7	1685.3	1643.7	1674.2	1733.7	1750.4	1731.0	1703.3	1690.8	1697.7
17.5°	1671.4	1733.7	1719.9	1692.2	1761.4	1769.7	1715.7	1653.4	1609.1	1592.5	1603.6
20°	1760.1	1814.1	1750.4	1762.8	1805.7	1717.1	1614.6	1534.3	1495.6	1488.6	1499.7
22.5°	1854.2	1888.8	1780.8	1844.5	1780.8	1600.8	1477.6	1436.0	1426.3	1437.4	1447.1
25°	1960.8	1956.7	1833.4	1869.4	1688.0	1458.2	1384.8	1382.0	1382.0	1388.9	1402.8
27.5°	2081.3	2016.2	1886.1	1836.2	1527.4	1340.5	1326.6	1328.0	1323.8	1325.2	1332.2
30°	2221.2	2096.6	1944.2	1726.8	1347.4	1251.8	1246.3	1242.1	1232.5	1229.7	1232.5
32.5°	2397.0	2181.0	2003.8	1546.8	1189.5	1160.4	1157.7	1135.5	1112.0	1109.2	1118.9
35°	2620.0	2334.7	2034.2	1321.1	1059.4	1058.0	1048.3	1013.7	983.2	983.2	976.3
37.5°	2874.8	2532.8	2046.7	1100.9	951.3	958.3	930.6	886.3	862.7	848.9	853.0
40°	3135.1	2758.5	2045.3	908.4	857.2	858.6	837.8	783.8	725.6	691.0	699.3
42.5°	3385.8	2963.4	2009.3	805.9	781.0	776.9	760.2	686.8	638.4	610.7	612.1
45°	3586.6	3175.3	1953.9	745.0	711.8	718.7	681.3	637.0	592.7	567.8	566.4
47.5°	3787.4	3335.9	1865.3	707.6	660.5	648.1	632.8	602.4	569.1	541.4	542.8
50°	3970.2	3473.0	1782.2	682.7	613.5	581.6	584.4	566.4	537.3	512.4	511.0
52.5°	4098.9	3563.0	1736.5	668.8	556.7	522.1	531.8	522.1	494.4	476.4	475.0
55°	4227.7	3632.3	1751.7	650.8	494.4	466.7	483.3	480.5	465.3	459.7	461.1
57.5°	4331.6	3684.9	1805.7	617.6	434.8	418.2	445.9	437.6	426.5	427.9	427.9
60°	4432.7	3752.7	1869.4	541.4	383.6	385.0	411.3	396.0	389.1	401.6	403.0
62.5°	4537.9	3826.1	1816.8	430.7	339.3	349.0	379.4	367.0	369.7	387.7	393.3
65°	4525.4	3819.2	1480.3	353.1	300.5	319.9	365.6	361.4	362.8	369.7	372.5
67.5°	4270.7	3575.5	1017.8	300.5	272.8	296.3	354.5	337.9	339.3	335.1	336.5
68°	4184.8	3489.6	897.3	292.2	267.3	290.8	349.0	333.7	335.1	331.0	329.6
70°	3716.7	2988.3	567.8	257.6	247.9	275.6	321.3	315.7	314.3	311.6	311.6
72.5°	2833.3	2205.9	299.1	222.9	225.7	252.0	286.6	297.7	290.8	292.2	300.5
75°	1876.4	1326.6	207.7	191.1	198.0	216.0	254.8	277.0	270.0	274.2	270.0
77.5°	992.9	714.5	166.2	162.0	162.0	174.5	210.5	245.1	245.1	242.3	238.2
80°	325.4	252.0	132.9	127.4	130.2	137.1	168.9	200.8	204.9	199.4	196.6
82.5°	109.4	116.3	99.7	92.8	95.5	101.1	127.4	153.7	155.1	144.0	141.2
85°	67.9	77.5	62.3	60.9	60.9	62.3	77.5	84.5	77.5	69.2	72.0
87.5°	31.8	38.8	29.1	24.9	20.8	18.0	13.8	5.5	5.5	2.8	2.8
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)