

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: P1210486

Luminaire Tested: **ARCH3-140-722-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210486
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: ARCH3-140-722-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1110mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12327 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 142.5
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

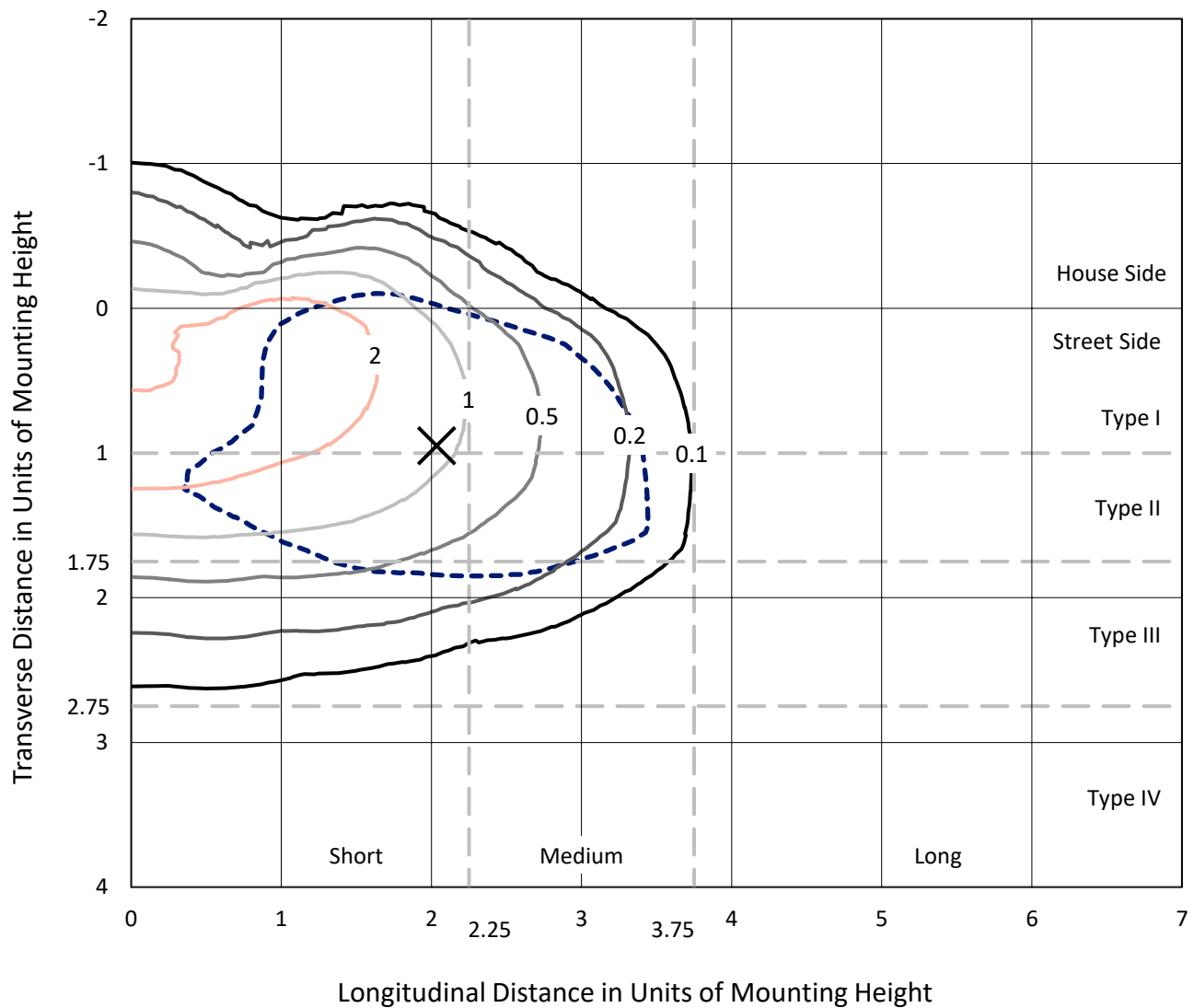


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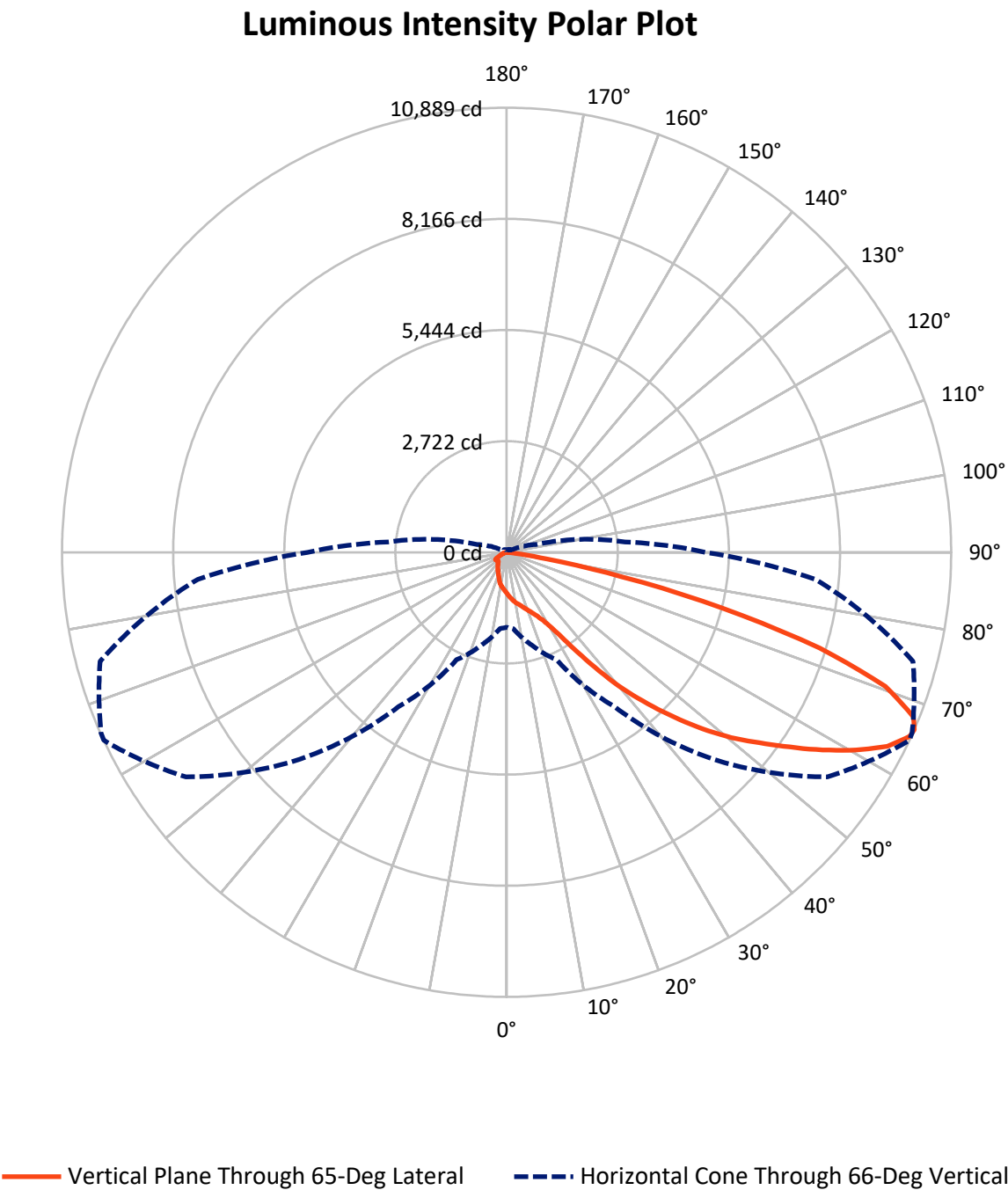
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
Type III - Short - N/A

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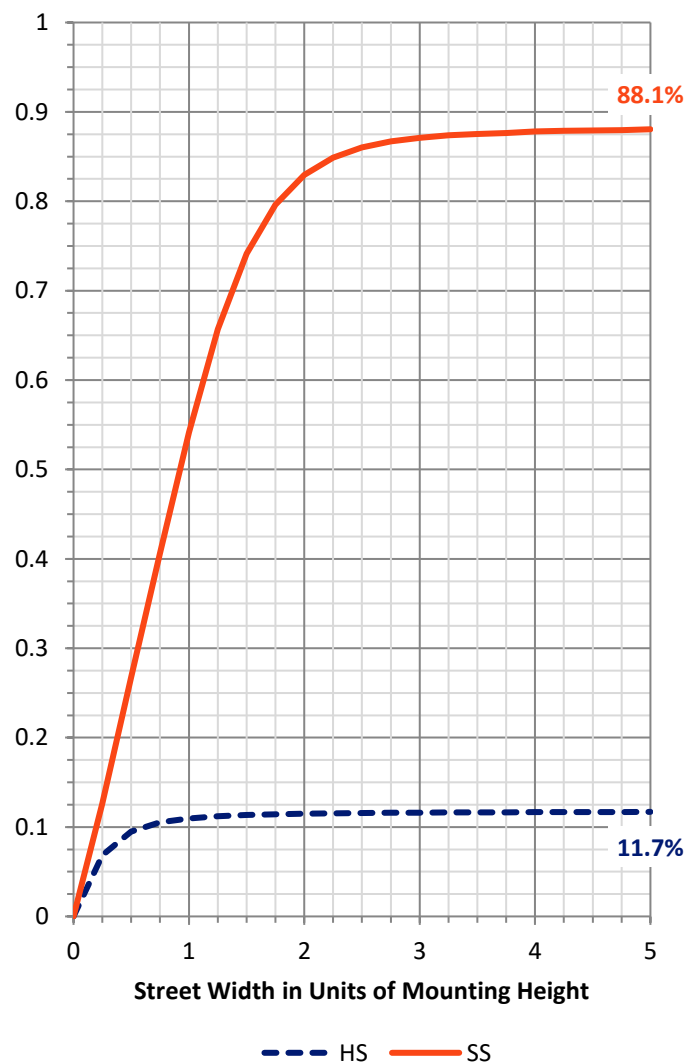
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1454.8	0.0	1454.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	10872.2	0.0	10872.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	12327.0	0.0	12327.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	0.8
10°-20°	281.8	2.3
20°-30°	515.9	4.2
30°-40°	1048.2	8.5
40°-50°	2213.6	18.0
50°-60°	3403.0	27.6
60°-70°	3425.4	27.8
70°-80°	1279.9	10.4
80°-90°	63.9	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°	12327.0	100.0
0°-180°	12327.0	100.0

Coefficient of Utilization



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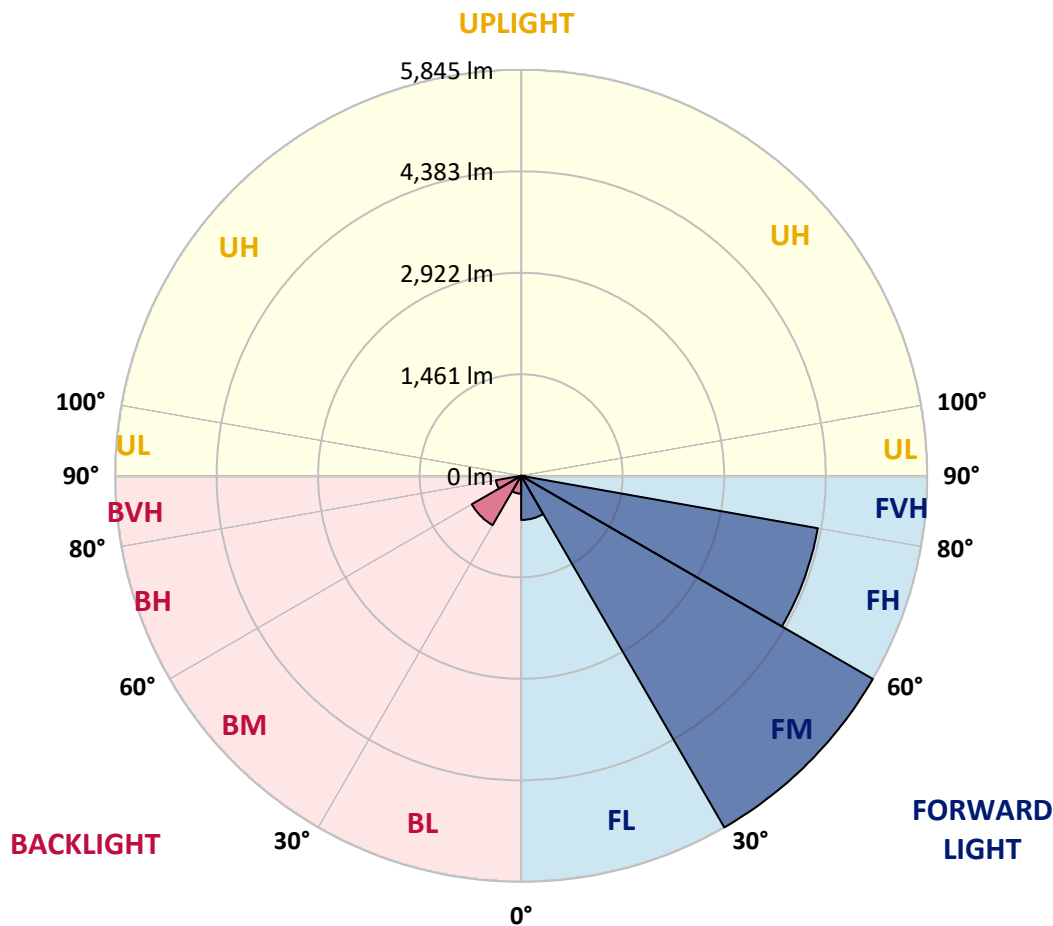
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	635.4	5.2			
FM	(30°-60°)	5844.6	47.4			
FH	(60°-80°)	4335.7	35.2			G2/5000
FVH	(80°-90°)	56.4	0.5			G1/100
BL	(0°-30°)	257.5	2.1	B1/500		
BM	(30°-60°)	820.2	6.7	B1/1000		
BH	(60°-80°)	369.6	3.0	B1/500		G1/500
BVH	(80°-90°)	7.5	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1004.3	1004.3	1004.3	1004.3	1004.3	1004.3	1004.3	1004.3	1004.3	1004.3	1004.3
2.5°	1145.2	1147.5	1143.0	1134.0	1125.1	1113.9	1096.0	1066.9	1062.5	1042.3	1020.0
5°	1223.5	1228.0	1221.3	1219.0	1214.6	1198.9	1174.3	1131.8	1127.3	1087.1	1035.6
7.5°	1250.3	1257.1	1252.6	1252.6	1252.6	1245.9	1234.7	1196.7	1190.0	1138.5	1060.2
10°	1270.5	1275.0	1272.7	1281.7	1288.4	1283.9	1277.2	1254.8	1248.1	1196.7	1093.8
12.5°	1301.8	1304.0	1306.3	1310.7	1321.9	1326.4	1324.2	1304.0	1299.6	1263.8	1136.3
15°	1330.9	1330.9	1333.1	1353.2	1368.9	1377.8	1380.1	1364.4	1359.9	1330.9	1190.0
17.5°	1357.7	1359.9	1366.7	1389.0	1415.9	1433.8	1444.9	1438.2	1431.5	1409.2	1252.6
20°	1398.0	1402.4	1409.2	1440.5	1467.3	1496.4	1518.8	1516.5	1514.3	1498.6	1326.4
22.5°	1467.3	1471.8	1483.0	1512.0	1538.9	1574.7	1612.7	1610.5	1603.8	1592.6	1413.6
25°	1572.4	1572.4	1579.2	1603.8	1637.3	1679.8	1715.6	1722.3	1715.6	1708.9	1523.2
27.5°	1704.4	1706.6	1706.6	1733.5	1764.8	1818.5	1863.2	1869.9	1869.9	1863.2	1670.9
30°	1887.8	1881.1	1876.6	1899.0	1932.6	2010.8	2089.1	2102.6	2095.8	2107.0	1878.9
32.5°	2203.2	2192.0	2154.0	2158.5	2178.6	2286.0	2417.9	2464.9	2462.7	2482.8	2214.4
35°	2639.4	2617.0	2561.1	2514.1	2511.9	2628.2	2829.5	3006.2	3004.0	3073.3	2724.4
37.5°	3131.5	3160.5	3055.4	2974.9	2950.3	3042.0	3301.5	3683.9	3704.1	3824.9	3393.2
40°	3789.1	3807.0	3672.8	3558.7	3442.4	3475.9	3818.1	4413.1	4448.9	4583.1	4061.9
42.5°	4361.7	4379.6	4301.3	4162.6	4015.0	3952.3	4339.3	5075.2	5104.3	5289.9	4750.9
45°	4750.9	4764.3	4791.1	4804.6	4636.8	4507.1	4976.8	5755.2	5791.0	6005.7	5424.1
47.5°	5055.1	5066.3	5119.9	5254.1	5220.6	5117.7	5625.4	6462.0	6470.9	6710.3	6079.5
50°	5196.0	5222.8	5354.8	5560.6	5708.2	5737.3	6330.0	7130.8	7155.4	7383.5	6699.1
52.5°	5039.4	5048.4	5381.6	5768.6	6066.1	6361.3	7036.8	7750.4	7821.9	7991.9	7256.0
55°	4511.5	4576.4	5081.9	5761.9	6347.9	6954.1	7792.9	8419.2	8484.0	8591.4	7745.9
57.5°	3898.7	3970.2	4585.4	5473.3	6468.7	7502.1	8493.0	9130.4	9175.2	9204.3	8195.5
60°	3368.6	3435.7	4068.7	4920.9	6347.9	7889.0	9143.9	9837.3	9875.3	9797.0	8421.4
62.5°	2717.7	2784.8	3422.2	4189.4	5873.7	7967.3	9627.0	10465.8	10481.4	10268.9	8282.7
65°	2048.9	2093.6	2626.0	3283.6	5043.9	7551.3	9736.6	10857.2	10841.6	10405.4	7866.7
66°	1836.4	1874.4	2344.1	2903.3	4612.2	7171.0	9589.0	10888.5	10872.9	10304.7	7593.8
67.5°	1583.6	1594.8	1981.8	2375.4	3858.4	6363.6	9139.4	10745.4	10758.8	10027.4	7095.0
70°	1236.9	1234.7	1458.4	1653.0	2634.9	4527.2	7622.9	9844.0	9908.8	8980.6	6050.4
72.5°	791.8	765.0	894.7	1011.0	1534.4	2628.2	5558.3	8023.2	8132.8	7054.7	4507.1
75°	472.0	445.1	476.4	505.5	735.9	1263.8	3267.9	5459.9	5565.1	4522.7	2681.9
77.5°	353.4	342.2	344.5	319.9	326.6	474.2	1491.9	2885.4	2961.5	1852.0	1017.7
80°	270.6	241.6	225.9	237.1	214.7	187.9	554.7	993.1	1040.1	438.4	212.5
82.5°	181.2	156.6	145.4	158.8	136.4	105.1	134.2	192.4	187.9	118.5	82.8
85°	93.9	80.5	80.5	80.5	69.3	51.4	58.2	78.3	78.3	62.6	49.2
87.5°	26.8	24.6	29.1	26.8	20.1	20.1	22.4	26.8	26.8	24.6	22.4
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°	1004.3	1004.3	1004.3	1004.3	1004.3	1004.3	1004.3	1004.3	1004.3	1004.3	1004.3
2.5°	1002.1	993.1	968.5	950.6	932.7	917.1	899.2	894.7	885.8	888.0	883.5
5°	1008.8	984.2	941.7	901.4	870.1	843.3	809.7	796.3	778.4	771.7	767.2
7.5°	1017.7	981.9	919.3	863.4	809.7	756.0	702.3	671.0	650.9	641.9	635.2
10°	1037.9	990.9	908.1	820.9	729.2	653.1	599.5	577.1	563.7	561.4	559.2
12.5°	1064.7	1004.3	896.9	767.2	646.4	574.8	541.3	534.6	532.3	532.3	530.1
15°	1105.0	1026.7	879.0	704.6	581.6	532.3	516.7	505.5	501.0	501.0	501.0
17.5°	1145.2	1053.5	852.2	639.7	536.8	505.5	489.8	483.1	478.7	480.9	478.7
20°	1196.7	1084.8	816.4	583.8	507.7	483.1	467.5	460.8	458.5	458.5	458.5
22.5°	1254.8	1120.6	771.7	541.3	483.1	460.8	445.1	438.4	433.9	436.2	436.2
25°	1333.1	1165.4	724.7	498.8	458.5	438.4	420.5	411.6	411.6	413.8	416.0
27.5°	1433.8	1219.0	677.7	472.0	436.2	416.0	395.9	387.0	389.2	393.7	393.7
30°	1581.4	1292.8	630.8	442.9	411.6	389.2	371.3	362.4	366.8	375.8	375.8
32.5°	1791.6	1413.6	590.5	409.3	375.8	351.2	333.3	326.6	337.8	355.6	355.6
35°	2167.4	1635.1	565.9	375.8	337.8	308.7	286.3	279.6	295.3	317.6	317.6
37.5°	2670.7	1990.7	574.8	346.7	306.4	272.9	248.3	239.3	250.5	270.6	277.4
40°	3232.1	2420.2	653.1	322.1	277.4	243.8	219.2	210.3	217.0	225.9	228.1
42.5°	3793.5	2876.5	800.8	304.2	255.0	219.2	196.8	190.1	194.6	196.8	199.1
45°	4352.7	3328.3	986.4	293.0	234.9	199.1	176.7	176.7	178.9	178.9	178.9
47.5°	4882.8	3768.9	1181.0	290.8	217.0	178.9	161.0	163.3	163.3	165.5	165.5
50°	5383.9	4162.6	1377.8	297.5	201.3	161.0	147.6	147.6	147.6	149.9	147.6
52.5°	5802.1	4507.1	1583.6	308.7	185.7	147.6	134.2	134.2	134.2	136.4	134.2
55°	6198.1	4820.2	1793.9	324.3	172.2	136.4	123.0	118.5	118.5	120.8	118.5
57.5°	6520.1	5028.2	1993.0	326.6	161.0	125.3	114.1	107.4	107.4	107.4	107.4
60°	6533.6	4907.4	2051.1	286.3	147.6	114.1	102.9	93.9	96.2	96.2	96.2
62.5°	6106.3	4272.2	1648.5	214.7	132.0	102.9	93.9	85.0	85.0	85.0	85.0
65°	5267.6	3323.8	966.3	170.0	114.1	91.7	82.8	76.0	76.0	76.0	73.8
66°	4873.9	2914.5	740.4	154.3	107.4	89.5	80.5	73.8	71.6	69.3	69.3
67.5°	4231.9	2303.9	463.0	136.4	98.4	82.8	73.8	67.1	64.9	62.6	62.6
70°	3187.4	1462.8	225.9	105.1	85.0	71.6	64.9	58.2	55.9	53.7	51.4
72.5°	2236.8	856.7	118.5	80.5	69.3	62.6	55.9	49.2	47.0	44.7	44.7
75°	1263.8	413.8	78.3	58.2	55.9	51.4	47.0	40.3	38.0	38.0	38.0
77.5°	478.7	143.2	53.7	42.5	44.7	40.3	33.6	33.6	31.3	33.6	31.3
80°	125.3	62.6	33.6	31.3	33.6	29.1	24.6	26.8	26.8	26.8	26.8
82.5°	67.1	35.8	20.1	22.4	20.1	20.1	15.7	17.9	20.1	17.9	20.1
85°	47.0	17.9	11.2	11.2	8.9	8.9	6.7	8.9	11.2	8.9	8.9
87.5°	24.6	6.7	6.7	6.7	6.7	4.5	2.2	0.0	2.2	2.2	2.2
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)