

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: P1210954

Luminaire Tested: **ARCH4-120-750-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210954
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: ARCH4-120-750-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1000mA 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: 14811 lumens
Efficiency: N/A
Efficacy: 121.4 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): 122
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

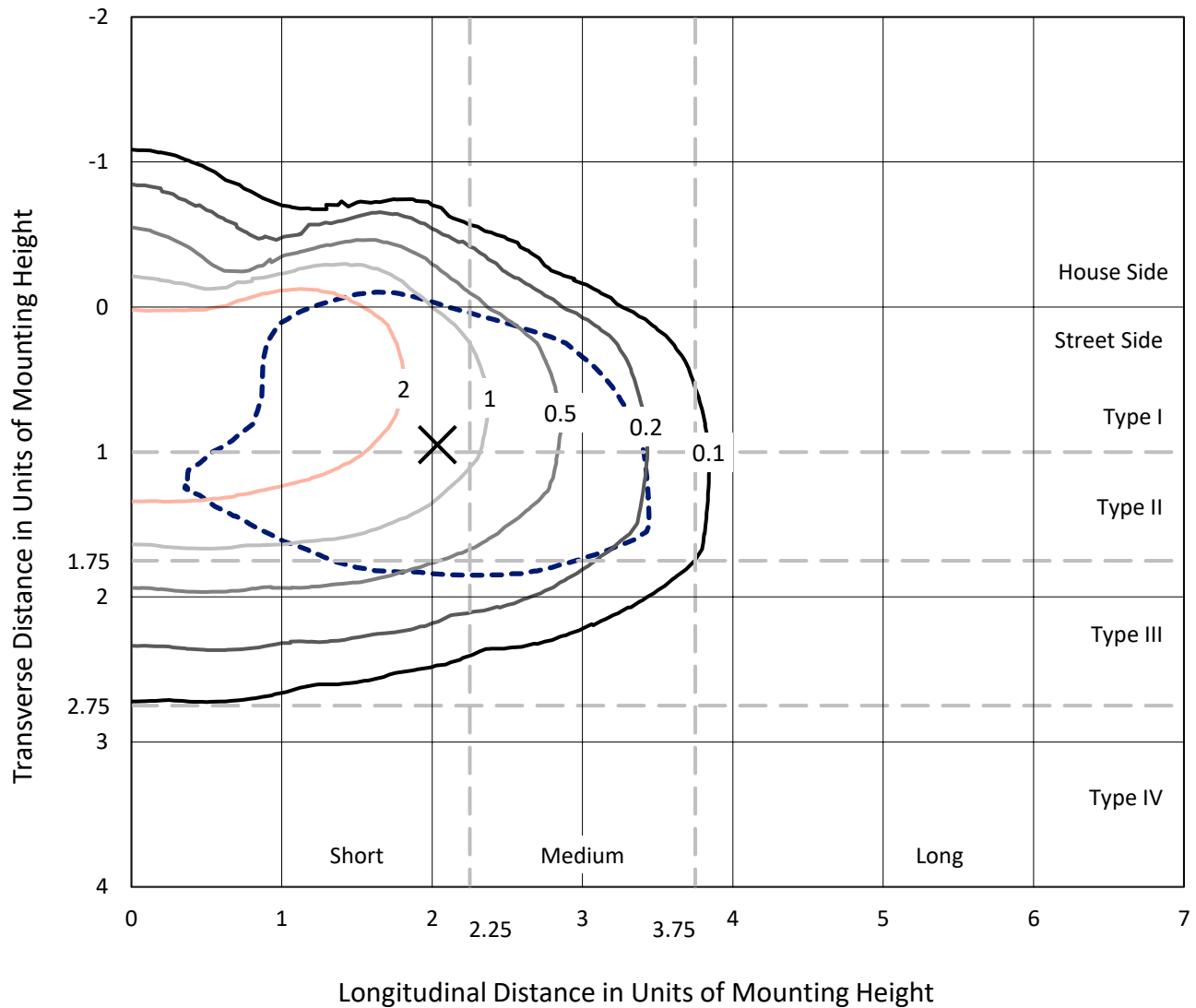


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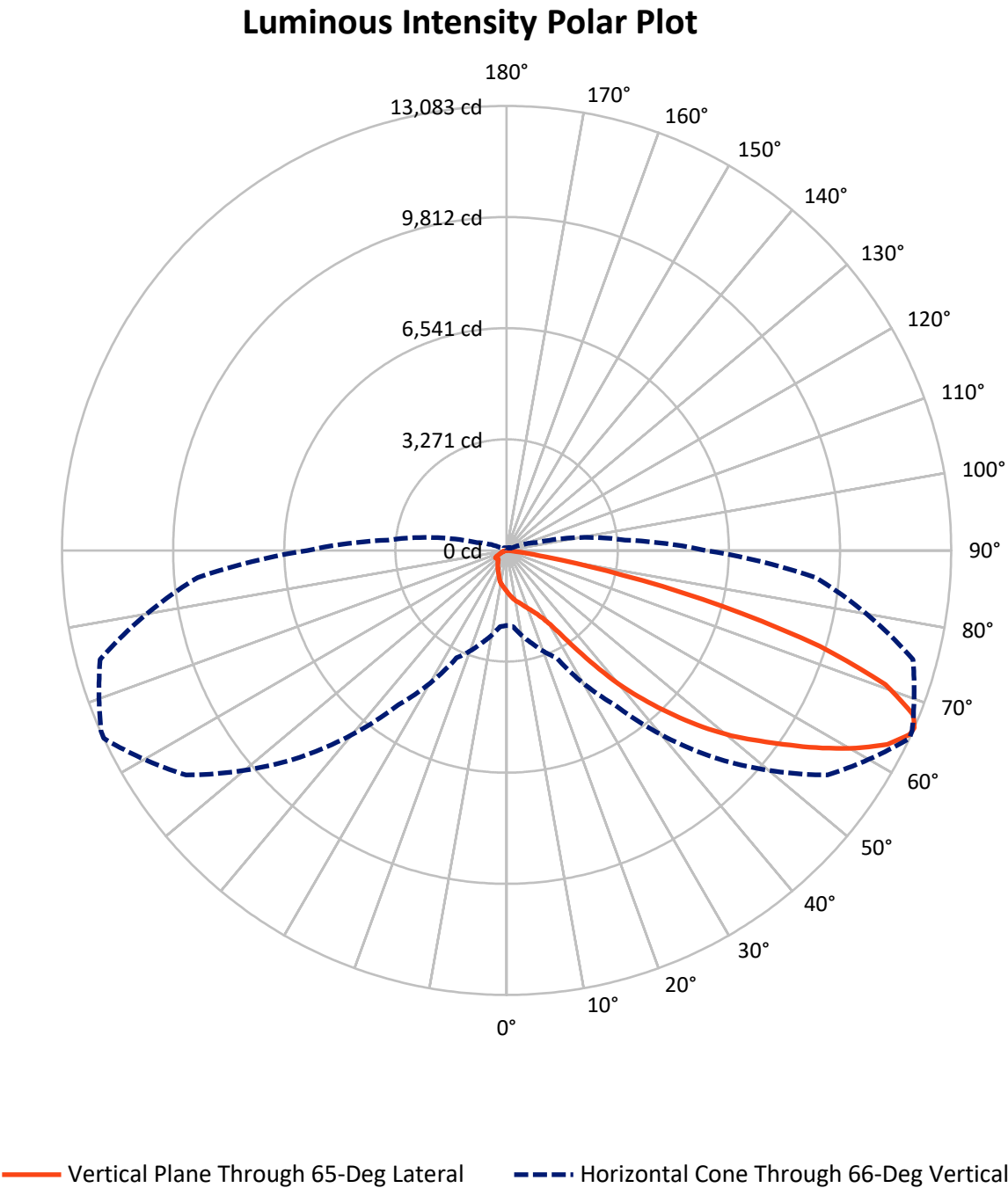
Iso-Footcandle Lines of Horizontal Illumination

✕ 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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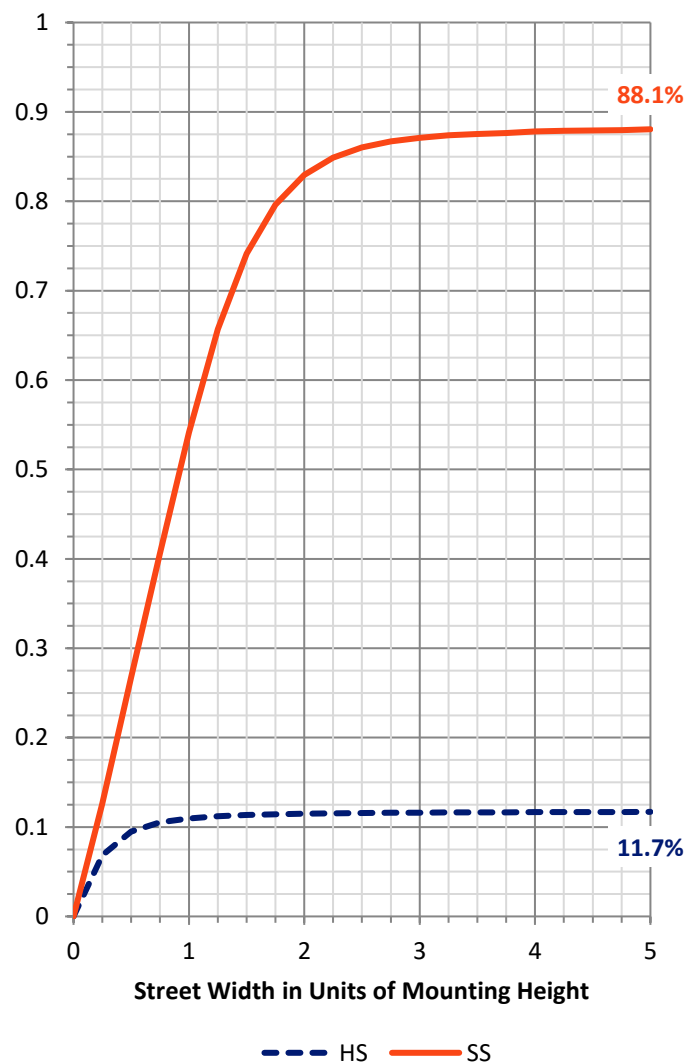
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1748.0	0.0	1748.0
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	13063.0	0.0	13063.0
	% Fixture	88.2	0.0	88.2
Total	Lumens	14811.0	0.0	14811.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	0.8
10°-20°	338.6	2.3
20°-30°	619.8	4.2
30°-40°	1259.5	8.5
40°-50°	2659.7	18.0
50°-60°	4088.8	27.6
60°-70°	4115.6	27.8
70°-80°	1537.8	10.4
80°-90°	76.8	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°	14811.0	100.0
0°-180°	14811.0	100.0

Coefficient of Utilization



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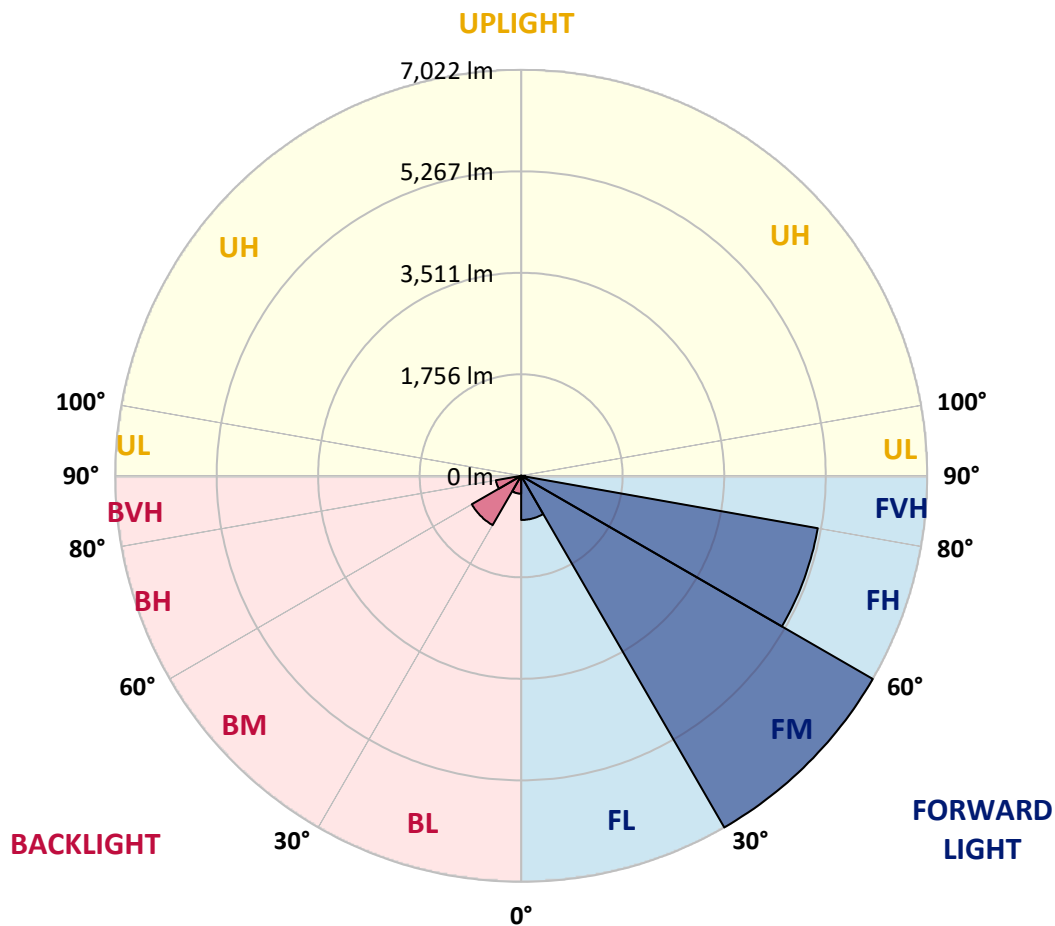
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	763.5	5.2			
FM	(30°-60°)	7022.3	47.4			
FH	(60°-80°)	5209.4	35.2			G3/7500
FVH	(80°-90°)	67.8	0.5			G1/100
BL	(0°-30°)	309.4	2.1	B1/500		
BM	(30°-60°)	985.5	6.7	B1/1000		
BH	(60°-80°)	444.0	3.0	B1/500		G1/500
BVH	(80°-90°)	9.0	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°	1206.7	1206.7	1206.7	1206.7	1206.7	1206.7	1206.7	1206.7	1206.7	1206.7	1206.7
2.5°	1376.0	1378.7	1373.3	1362.6	1351.8	1338.4	1316.9	1281.9	1276.6	1252.4	1225.5
5°	1470.1	1475.4	1467.4	1464.7	1459.3	1440.5	1410.9	1359.9	1354.5	1306.1	1244.3
7.5°	1502.3	1510.4	1505.0	1505.0	1505.0	1496.9	1483.5	1437.8	1429.7	1367.9	1273.9
10°	1526.5	1531.9	1529.2	1539.9	1548.0	1542.6	1534.6	1507.7	1499.6	1437.8	1314.2
12.5°	1564.1	1566.8	1569.5	1574.9	1588.3	1593.7	1591.0	1566.8	1561.4	1518.4	1365.2
15°	1599.1	1599.1	1601.7	1625.9	1644.7	1655.5	1658.2	1639.4	1634.0	1599.1	1429.7
17.5°	1631.3	1634.0	1642.1	1668.9	1701.2	1722.7	1736.1	1728.1	1720.0	1693.1	1505.0
20°	1679.7	1685.1	1693.1	1730.7	1763.0	1797.9	1824.8	1822.1	1819.4	1800.6	1593.7
22.5°	1763.0	1768.4	1781.8	1816.7	1849.0	1892.0	1937.7	1935.0	1926.9	1913.5	1698.5
25°	1889.3	1889.3	1897.4	1926.9	1967.2	2018.3	2061.3	2069.4	2061.3	2053.2	1830.2
27.5°	2047.9	2050.5	2050.5	2082.8	2120.4	2184.9	2238.7	2246.7	2246.7	2238.7	2007.5
30°	2268.2	2260.2	2254.8	2281.7	2322.0	2416.0	2510.1	2526.2	2518.2	2531.6	2257.5
32.5°	2647.2	2633.7	2588.0	2593.4	2617.6	2746.6	2905.2	2961.6	2958.9	2983.1	2660.6
35°	3171.2	3144.4	3077.2	3020.7	3018.0	3157.8	3399.7	3612.0	3609.3	3692.6	3273.4
37.5°	3762.5	3797.4	3671.1	3574.4	3544.8	3655.0	3966.7	4426.3	4450.5	4595.6	4076.9
40°	4552.6	4574.1	4412.8	4275.8	4136.0	4176.3	4587.5	5302.4	5345.4	5506.7	4880.5
42.5°	5240.6	5262.1	5168.0	5001.4	4824.0	4748.8	5213.7	6097.9	6132.8	6355.9	5708.2
45°	5708.2	5724.3	5756.6	5772.7	5571.2	5415.3	5979.6	6914.9	6957.9	7215.9	6517.1
47.5°	6073.7	6087.1	6151.6	6312.9	6272.6	6149.0	6759.0	7764.1	7774.9	8062.4	7304.6
50°	6243.0	6275.3	6433.8	6681.1	6858.5	6893.4	7605.6	8567.7	8597.3	8871.4	8049.0
52.5°	6054.9	6065.6	6466.1	6931.0	7288.5	7643.2	8454.8	9312.1	9398.1	9602.4	8718.2
55°	5420.7	5498.6	6106.0	6923.0	7627.1	8355.4	9363.2	10115.7	10193.6	10322.6	9306.8
57.5°	4684.3	4770.3	5509.3	6576.3	7772.2	9013.8	10204.4	10970.3	11024.1	11059.0	9846.9
60°	4047.3	4128.0	4888.5	5912.5	7627.1	9478.8	10986.4	11819.5	11865.2	11771.2	10118.4
62.5°	3265.3	3345.9	4111.8	5033.7	7057.3	9572.8	11566.9	12574.7	12593.5	12338.2	9951.7
65°	2461.7	2515.5	3155.1	3945.2	6060.3	9072.9	11698.6	13045.0	13026.2	12502.2	9451.9
66°	2206.4	2252.1	2816.5	3488.4	5541.6	8616.1	11521.2	13082.7	13063.9	12381.2	9124.0
67.5°	1902.7	1916.2	2381.1	2854.1	4635.9	7645.9	10981.1	12910.7	12926.8	12048.0	8524.7
70°	1486.2	1483.5	1752.2	1986.0	3165.9	5439.5	9158.9	11827.6	11905.5	10790.2	7269.6
72.5°	951.4	919.1	1075.0	1214.7	1843.6	3157.8	6678.4	9640.0	9771.7	8476.3	5415.3
75°	567.1	534.8	572.4	607.4	884.2	1518.4	3926.4	6560.1	6686.5	5434.1	3222.3
77.5°	424.6	411.2	413.9	384.3	392.4	569.7	1792.6	3466.9	3558.2	2225.2	1222.8
80°	325.2	290.2	271.4	284.9	258.0	225.7	666.5	1193.2	1249.7	526.7	255.3
82.5°	217.7	188.1	174.7	190.8	163.9	126.3	161.2	231.1	225.7	142.4	99.4
85°	112.9	96.7	96.7	96.7	83.3	61.8	69.9	94.1	94.1	75.2	59.1
87.5°	32.2	29.6	34.9	32.2	24.2	24.2	26.9	32.2	32.2	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°	1206.7	1206.7	1206.7	1206.7	1206.7	1206.7	1206.7	1206.7	1206.7	1206.7	1206.7
2.5°	1204.0	1193.2	1163.7	1142.2	1120.7	1101.9	1080.4	1075.0	1064.2	1066.9	1061.6
5°	1212.1	1182.5	1131.4	1083.1	1045.4	1013.2	972.9	956.7	935.2	927.2	921.8
7.5°	1222.8	1179.8	1104.6	1037.4	972.9	908.4	843.9	806.2	782.1	771.3	763.2
10°	1247.0	1190.6	1091.1	986.3	876.1	784.7	720.2	693.4	677.2	674.6	671.9
12.5°	1279.2	1206.7	1077.7	921.8	776.7	690.7	650.4	642.3	639.6	639.6	636.9
15°	1327.6	1233.6	1056.2	846.6	698.7	639.6	620.8	607.4	602.0	602.0	602.0
17.5°	1376.0	1265.8	1023.9	768.6	645.0	607.4	588.6	580.5	575.1	577.8	575.1
20°	1437.8	1303.4	980.9	701.4	610.1	580.5	561.7	553.6	550.9	550.9	550.9
22.5°	1507.7	1346.4	927.2	650.4	580.5	553.6	534.8	526.7	521.4	524.1	524.1
25°	1601.7	1400.2	870.7	599.3	550.9	526.7	505.2	494.5	494.5	497.2	499.9
27.5°	1722.7	1464.7	814.3	567.1	524.1	499.9	475.7	464.9	467.6	473.0	473.0
30°	1900.1	1553.4	757.9	532.1	494.5	467.6	446.1	435.4	440.7	451.5	451.5
32.5°	2152.7	1698.5	709.5	491.8	451.5	421.9	400.4	392.4	405.8	427.3	427.3
35°	2604.2	1964.5	679.9	451.5	405.8	370.9	344.0	335.9	354.7	381.6	381.6
37.5°	3208.9	2391.9	690.7	416.6	368.2	327.9	298.3	287.6	301.0	325.2	333.2
40°	3883.4	2907.9	784.7	387.0	333.2	292.9	263.4	252.6	260.7	271.4	274.1
42.5°	4558.0	3456.1	962.1	365.5	306.4	263.4	236.5	228.4	233.8	236.5	239.2
45°	5229.8	3999.0	1185.2	352.1	282.2	239.2	212.3	212.3	215.0	215.0	215.0
47.5°	5866.8	4528.4	1419.0	349.4	260.7	215.0	193.5	196.2	196.2	198.9	198.9
50°	6468.8	5001.4	1655.5	357.4	241.9	193.5	177.4	177.4	177.4	180.1	177.4
52.5°	6971.3	5415.3	1902.7	370.9	223.1	177.4	161.2	161.2	161.2	163.9	161.2
55°	7447.0	5791.5	2155.4	389.7	206.9	163.9	147.8	142.4	142.4	145.1	142.4
57.5°	7834.0	6041.5	2394.5	392.4	193.5	150.5	137.1	129.0	129.0	129.0	129.0
60°	7850.1	5896.3	2464.4	344.0	177.4	137.1	123.6	112.9	115.6	115.6	115.6
62.5°	7336.8	5133.1	1980.7	258.0	158.6	123.6	112.9	102.1	102.1	102.1	102.1
65°	6329.0	3993.6	1161.0	204.2	137.1	110.2	99.4	91.4	91.4	91.4	88.7
66°	5856.0	3501.8	889.6	185.4	129.0	107.5	96.7	88.7	86.0	83.3	83.3
67.5°	5084.7	2768.1	556.3	163.9	118.2	99.4	88.7	80.6	77.9	75.2	75.2
70°	3829.7	1757.6	271.4	126.3	102.1	86.0	77.9	69.9	67.2	64.5	61.8
72.5°	2687.5	1029.3	142.4	96.7	83.3	75.2	67.2	59.1	56.4	53.7	53.7
75°	1518.4	497.2	94.1	69.9	67.2	61.8	56.4	48.4	45.7	45.7	45.7
77.5°	575.1	172.0	64.5	51.1	53.7	48.4	40.3	40.3	37.6	40.3	37.6
80°	150.5	75.2	40.3	37.6	40.3	34.9	29.6	32.2	32.2	32.2	32.2
82.5°	80.6	43.0	24.2	26.9	24.2	24.2	18.8	21.5	24.2	21.5	24.2
85°	56.4	21.5	13.4	13.4	10.7	10.7	8.1	10.7	13.4	10.7	10.7
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)