

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: P1211028

Luminaire Tested: **ARCH4-150-722-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211028
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: ARCH4-150-722-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1230mA 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: 15001 lumens
Efficiency: N/A
Efficacy: 99.5 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): 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



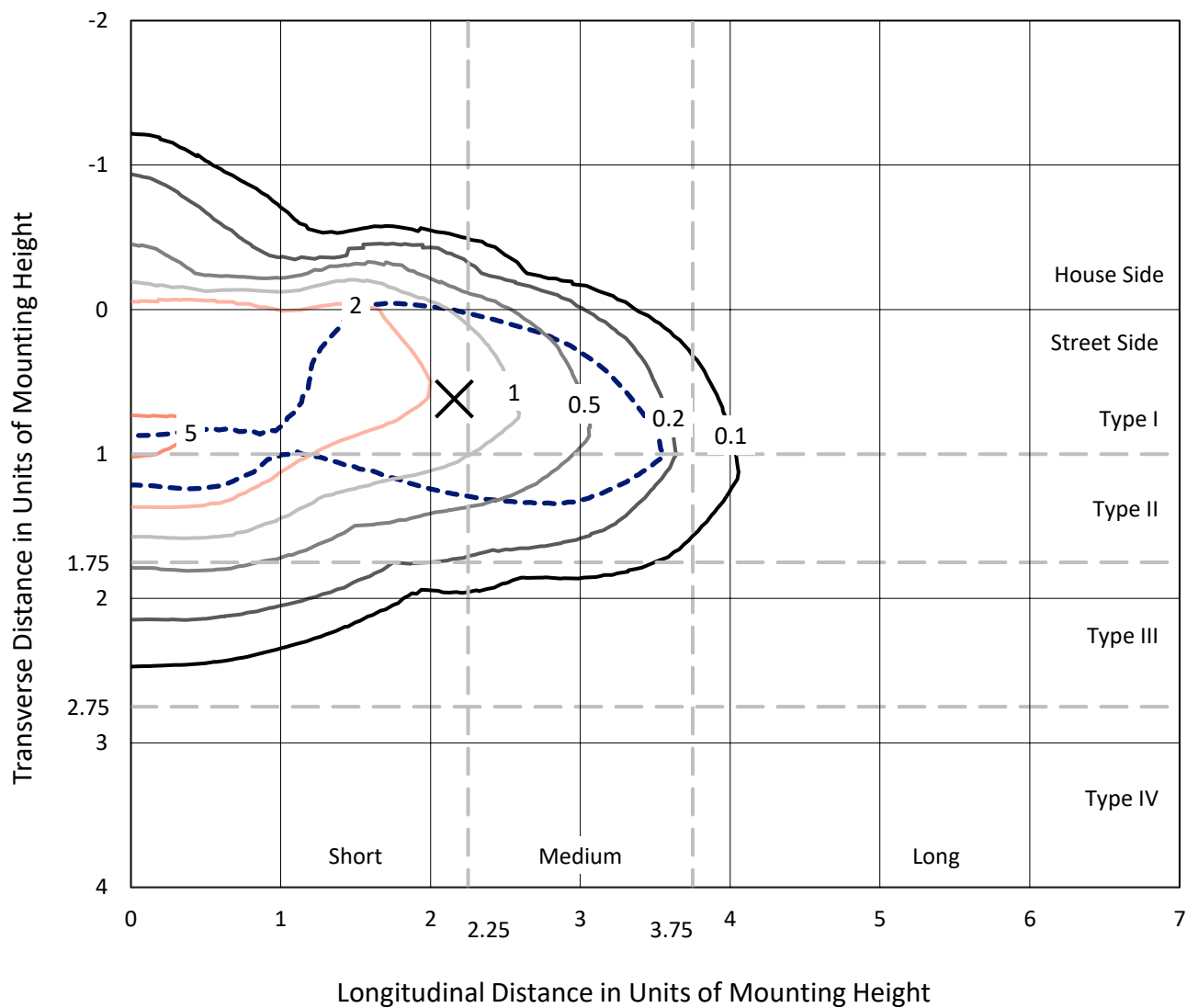
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Iso-Footcandle Lines of Horizontal Illumination

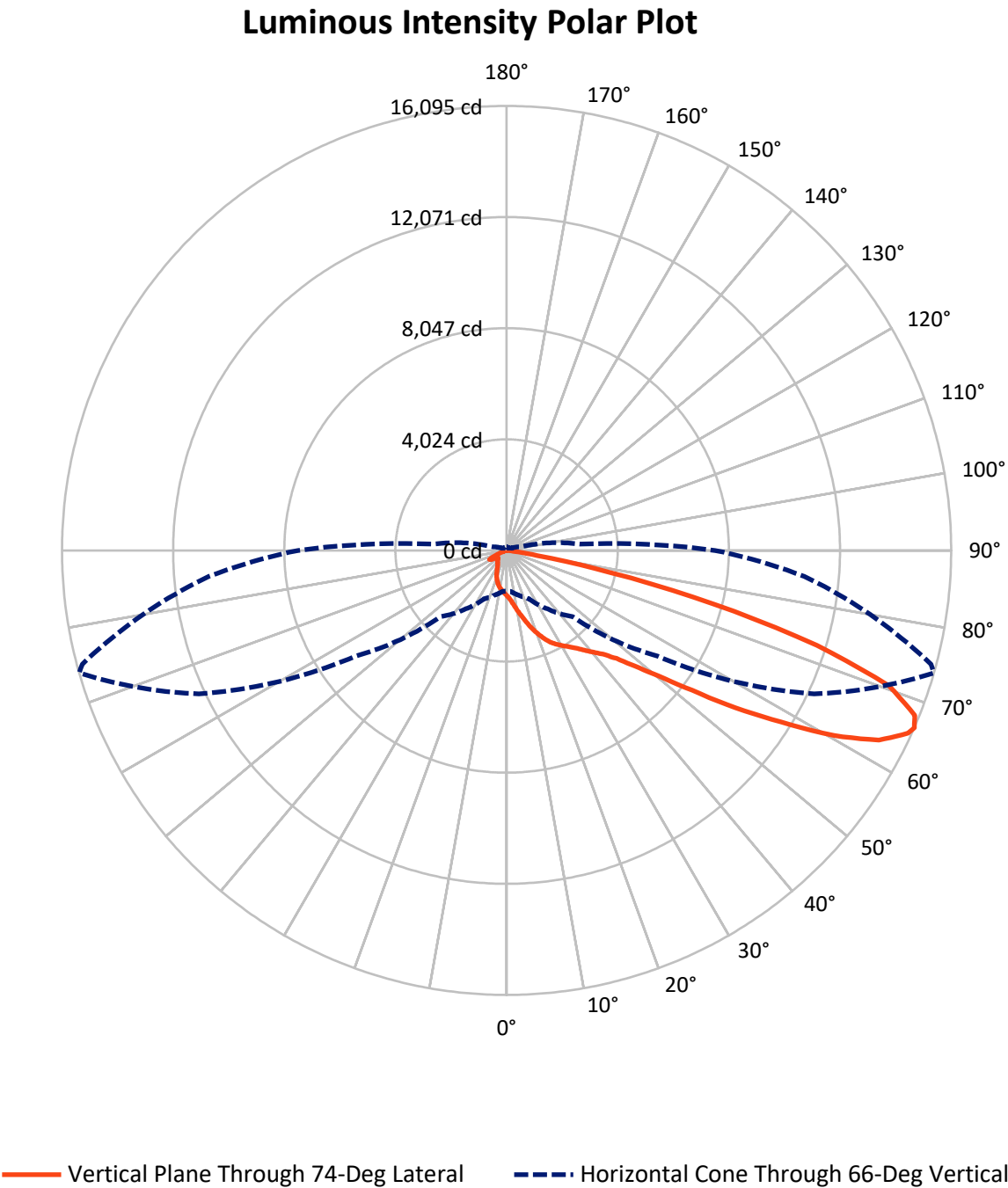
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
Type II - Short - N/A

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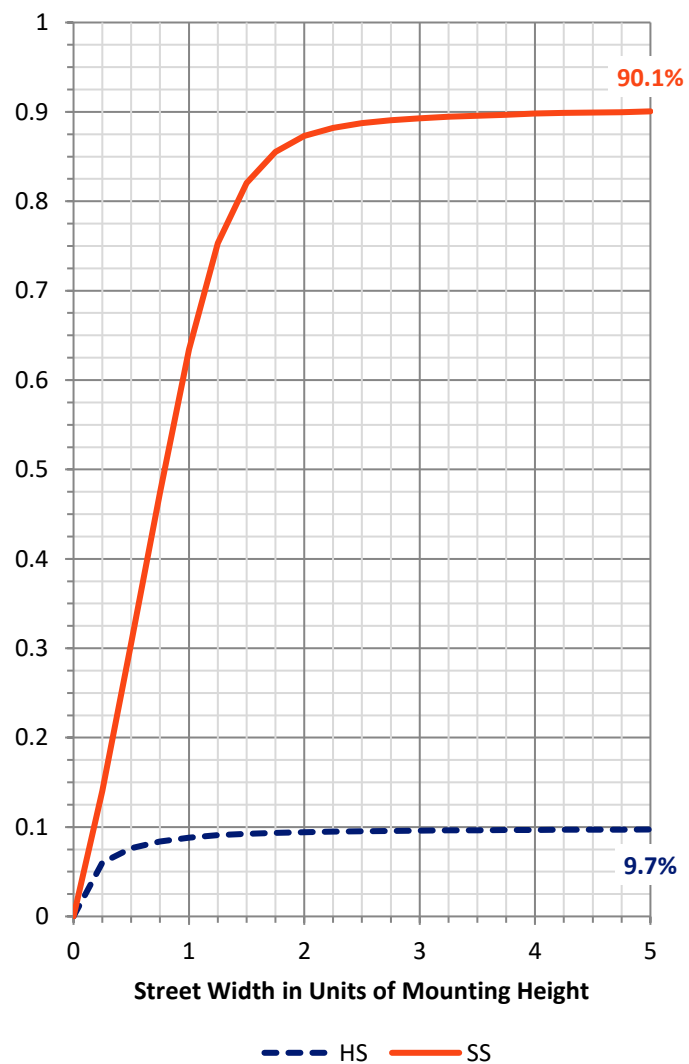
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1470.6	0.0	1470.6
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	13530.4	0.0	13530.4
	% Fixture	90.2	0.0	90.2
Total	Lumens	15001.0	0.0	15001.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.8	1.1
10°-20°	512.4	3.4
20°-30°	977.9	6.5
30°-40°	1713.9	11.4
40°-50°	2939.0	19.6
50°-60°	3822.4	25.5
60°-70°	3460.2	23.1
70°-80°	1335.1	8.9
80°-90°	80.3	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°	15001.0	100.0
0°-180°	15001.0	100.0

Coefficient of Utilization



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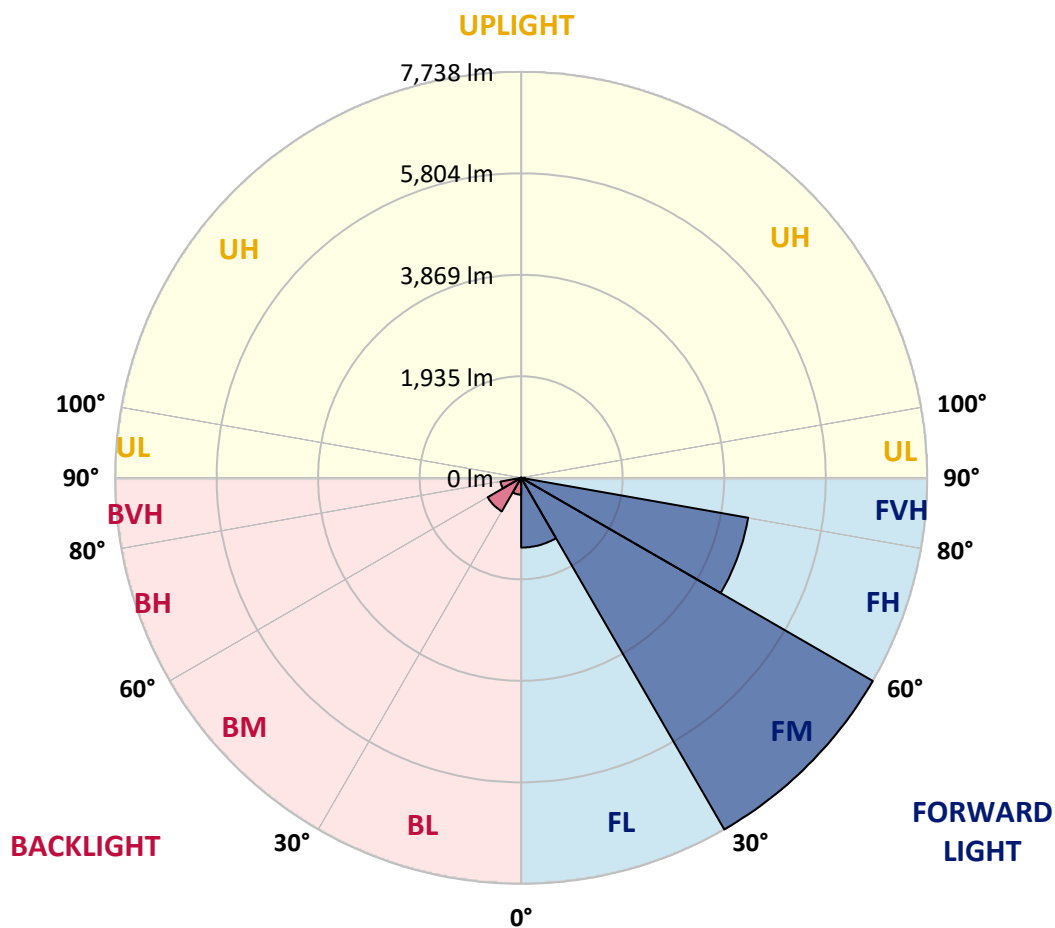
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1329.3	8.9			
FM	(30°-60°)	7738.3	51.6			
FH	(60°-80°)	4393.3	29.3			G2/5000
FVH	(80°-90°)	69.6	0.5			G1/100
BL	(0°-30°)	320.8	2.1	B1/500		
BM	(30°-60°)	737.0	4.9	B1/1000		
BH	(60°-80°)	402.0	2.7	B1/500		G1/500
BVH	(80°-90°)	10.8	0.1			G1/100
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°	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5
2.5°	1966.1	1949.9	1920.3	1917.6	1893.3	1863.7	1812.5	1758.7	1721.0	1715.6	1669.8
5°	2353.9	2345.8	2316.2	2297.3	2251.5	2181.5	2063.0	1944.5	1844.9	1834.1	1731.8
7.5°	2456.2	2461.6	2467.0	2485.9	2469.7	2437.4	2348.5	2181.5	2025.3	2001.1	1823.3
10°	2472.4	2467.0	2467.0	2491.2	2537.0	2582.8	2572.0	2429.3	2227.3	2197.7	1949.9
12.5°	2647.5	2655.5	2636.7	2625.9	2617.8	2642.1	2722.9	2660.9	2440.1	2415.8	2103.4
15°	2873.7	2871.0	2844.1	2844.1	2819.8	2779.4	2830.6	2876.4	2695.9	2666.3	2278.5
17.5°	3038.0	3048.7	3046.1	3062.2	3054.1	3000.3	2973.3	3067.6	2959.9	2922.2	2477.8
20°	3169.9	3199.6	3210.3	3261.5	3285.8	3248.0	3178.0	3237.3	3213.0	3178.0	2679.8
22.5°	3310.0	3334.2	3353.1	3442.0	3509.3	3501.2	3412.3	3398.9	3458.1	3425.8	2879.1
25°	3450.0	3460.8	3517.4	3625.1	3732.8	3759.8	3668.2	3563.2	3679.0	3649.3	3056.8
27.5°	3603.6	3608.9	3676.3	3808.2	3959.1	4015.6	3942.9	3749.0	3848.6	3848.6	3218.4
30°	3883.6	3937.5	3964.4	4082.9	4214.9	4293.0	4206.8	3945.6	3999.5	4023.7	3388.1
32.5°	4486.9	4495.0	4486.9	4538.1	4565.0	4610.8	4511.2	4166.4	4153.0	4179.9	3555.1
35°	5408.0	5375.7	5289.5	5214.1	5057.9	4971.7	4842.4	4449.2	4341.5	4379.2	3719.4
37.5°	6525.7	6479.9	6283.3	6051.7	5717.7	5373.0	5211.4	4794.0	4581.2	4629.7	3897.1
40°	7592.2	7562.6	7328.3	7042.8	6471.9	5882.0	5540.0	5084.8	4847.8	4866.7	4077.6
42.5°	8470.2	8464.8	8268.2	7969.3	7236.7	6431.5	5927.8	5370.3	5127.9	5157.6	4266.1
45°	9135.5	9084.3	8938.9	8723.4	7977.4	7002.4	6396.4	5803.9	5577.7	5612.7	4548.9
47.5°	9135.5	9143.5	9237.8	9216.3	8494.5	7538.4	6908.2	6350.7	6242.9	6275.2	5014.8
50°	8392.1	8467.5	8887.7	9240.5	8763.8	7955.8	7460.3	7034.7	7145.2	7193.6	5828.2
52.5°	6921.6	7048.2	7778.1	8583.4	8564.5	8165.9	8031.2	7904.7	8400.2	8486.4	7029.4
55°	5259.9	5343.4	6294.1	7352.5	7697.3	7993.5	8529.5	9008.9	10061.9	10043.1	8249.4
57.5°	3929.4	4007.5	4826.3	6000.5	6455.7	7247.5	8785.3	10272.0	11710.2	11782.9	9394.0
60°	2889.8	2949.1	3646.6	4610.8	5268.0	6105.6	8683.0	11516.3	13608.9	13525.4	10404.0
62.5°	2138.4	2170.7	2674.4	3301.9	4174.5	4974.4	8039.3	12367.3	15125.2	14955.6	10966.9
65°	1653.6	1664.4	1925.7	2259.6	3035.3	3867.5	7080.5	12496.6	15962.8	15782.4	10956.1
66°	1473.2	1481.3	1672.5	1931.1	2582.8	3385.4	6660.4	12289.2	16094.8	15903.6	10821.4
67.5°	1236.2	1230.8	1343.9	1513.6	1939.1	2612.4	5914.4	11683.3	15938.6	15841.6	10390.5
70°	915.7	918.4	975.0	1015.4	1133.9	1446.3	4271.5	10134.7	14688.9	14683.5	9208.2
72.5°	678.7	686.8	729.9	737.9	708.3	783.7	2461.6	8060.9	11750.6	11753.3	6883.9
75°	509.0	522.5	536.0	541.3	514.4	495.6	1112.3	5424.2	7729.6	7673.0	3897.1
77.5°	387.8	393.2	404.0	395.9	390.5	342.0	463.2	2644.8	3816.3	3477.0	1263.1
80°	282.8	282.8	293.6	282.8	280.1	245.1	253.2	848.4	1120.4	931.9	272.0
82.5°	177.8	175.1	183.1	180.4	175.1	156.2	148.1	237.0	258.6	231.6	132.0
85°	99.6	97.0	94.3	91.6	83.5	70.0	80.8	88.9	118.5	121.2	94.3
87.5°	35.0	35.0	32.3	29.6	24.2	24.2	29.6	29.6	43.1	43.1	48.5
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°	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5	1637.5
2.5°	1648.3	1618.6	1575.5	1519.0	1478.6	1438.2	1395.1	1370.9	1335.8	1327.8	1338.5
5°	1677.9	1624.0	1516.3	1397.8	1295.4	1203.9	1117.7	1066.5	1015.4	996.5	1004.6
7.5°	1739.8	1648.3	1465.1	1273.9	1104.2	966.9	864.5	805.3	759.5	740.6	746.0
10°	1831.4	1691.4	1416.6	1133.9	915.7	770.3	684.1	646.4	619.4	608.7	611.4
12.5°	1941.8	1753.3	1354.7	993.8	754.1	627.5	587.1	579.0	573.7	568.3	571.0
15°	2065.7	1807.2	1282.0	856.4	627.5	557.5	544.0	541.3	538.6	538.6	538.6
17.5°	2195.0	1855.6	1201.2	727.2	546.7	514.4	506.3	506.3	506.3	509.0	509.0
20°	2316.2	1893.3	1106.9	611.4	500.9	474.0	468.6	468.6	471.3	474.0	474.0
22.5°	2434.7	1909.5	996.5	530.6	463.2	439.0	430.9	430.9	430.9	433.6	433.6
25°	2537.0	1909.5	886.1	479.4	430.9	406.7	395.9	393.2	395.9	395.9	395.9
27.5°	2623.2	1901.4	778.3	444.4	398.6	374.4	363.6	360.9	366.3	369.0	369.0
30°	2714.8	1890.7	692.2	412.1	371.7	347.4	336.7	336.7	344.7	355.5	355.5
32.5°	2803.7	1898.7	624.8	385.1	344.7	325.9	315.1	317.8	334.0	350.1	350.1
35°	2897.9	1914.9	584.4	366.3	325.9	307.0	298.9	307.0	323.2	339.3	339.3
37.5°	2992.2	1933.7	560.2	350.1	309.7	290.9	285.5	296.3	315.1	331.3	334.0
40°	3091.8	1949.9	533.3	334.0	298.9	277.4	274.7	285.5	309.7	325.9	328.6
42.5°	3215.7	1982.2	500.9	320.5	288.2	261.2	263.9	272.0	296.3	320.5	323.2
45°	3458.1	2084.6	468.6	307.0	274.7	253.2	247.8	253.2	280.1	307.0	312.4
47.5°	3913.3	2316.2	433.6	293.6	261.2	247.8	226.2	231.6	255.9	285.5	288.2
50°	4785.9	2809.0	414.8	280.1	250.5	228.9	204.7	204.7	223.5	250.5	250.5
52.5°	6146.0	3692.4	425.5	269.3	237.0	210.1	185.8	183.1	193.9	212.8	212.8
55°	7613.8	4662.0	465.9	258.6	220.8	199.3	172.4	158.9	167.0	177.8	177.8
57.5°	8777.3	5149.5	576.4	253.2	202.0	191.2	156.2	137.4	145.4	156.2	156.2
60°	9289.0	4864.0	700.2	258.6	188.5	177.8	140.0	121.2	134.7	145.4	148.1
62.5°	8874.2	4004.8	751.4	245.1	169.7	158.9	137.4	113.1	129.3	137.4	140.0
65°	7977.4	3043.4	587.1	212.8	156.2	137.4	123.9	107.7	121.2	129.3	129.3
66°	7551.8	2652.8	500.9	196.6	150.8	129.3	118.5	107.7	118.5	123.9	126.6
67.5°	6892.0	2092.6	371.7	172.4	140.0	118.5	110.4	102.3	113.1	118.5	118.5
70°	5389.2	1247.0	223.5	134.7	121.2	105.0	99.6	94.3	102.3	105.0	105.0
72.5°	3374.6	592.5	142.7	99.6	102.3	99.6	83.5	88.9	91.6	94.3	94.3
75°	1634.8	234.3	97.0	72.7	83.5	94.3	67.3	78.1	80.8	86.2	83.5
77.5°	455.2	113.1	61.9	53.9	72.7	72.7	51.2	61.9	72.7	91.6	83.5
80°	132.0	72.7	40.4	40.4	51.2	51.2	35.0	43.1	48.5	53.9	56.6
82.5°	91.6	48.5	26.9	29.6	29.6	32.3	21.5	21.5	26.9	26.9	29.6
85°	72.7	21.5	16.2	18.9	13.5	16.2	10.8	10.8	13.5	10.8	10.8
87.5°	29.6	10.8	10.8	10.8	8.1	8.1	5.4	2.7	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)