

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: P1211206

Luminaire Tested: **ARCH4-200-740-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211206
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: ARCH4-200-740-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 800mA 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: 22558 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 203.7
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



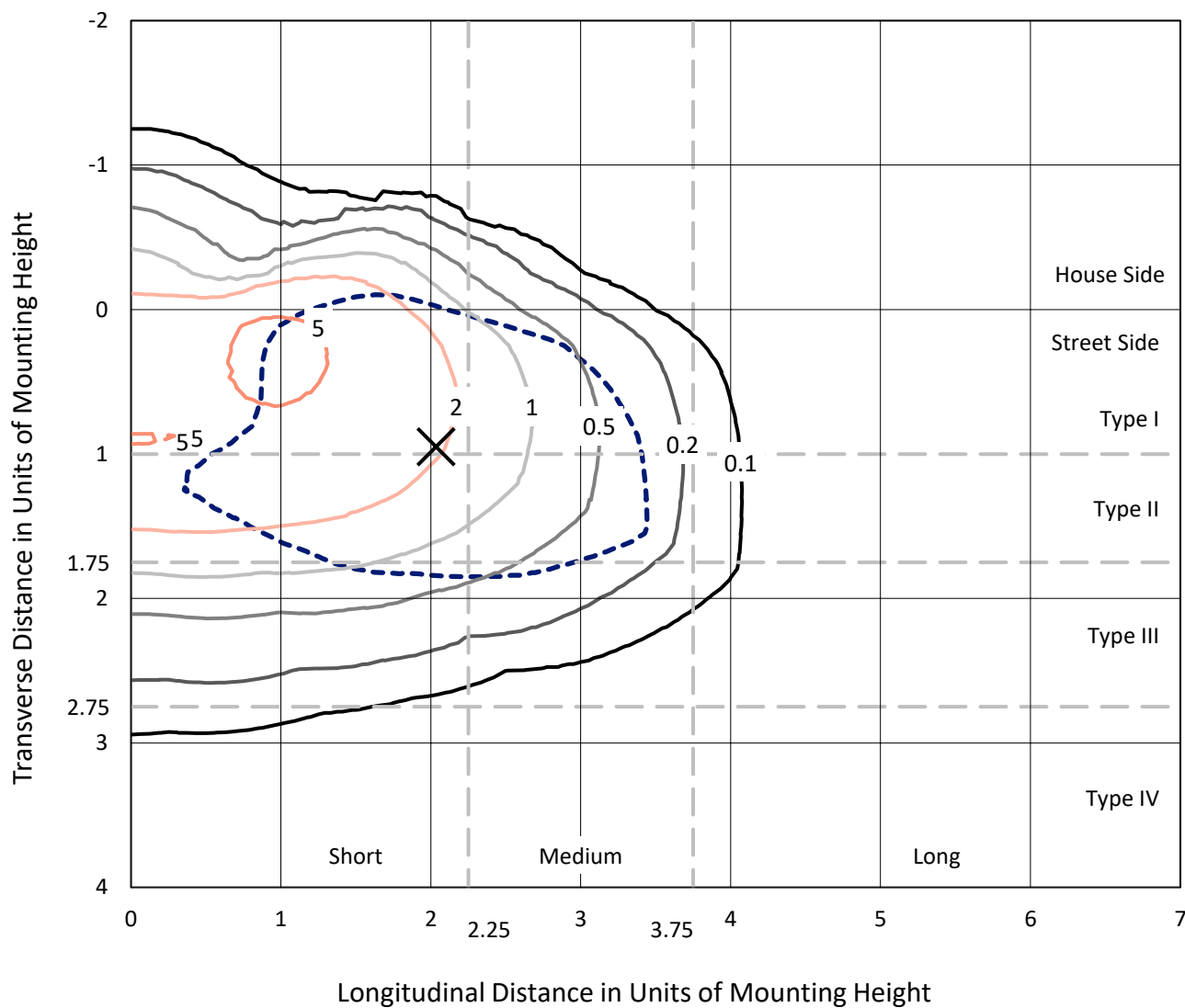
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Iso-Footcandle Lines of Horizontal Illumination

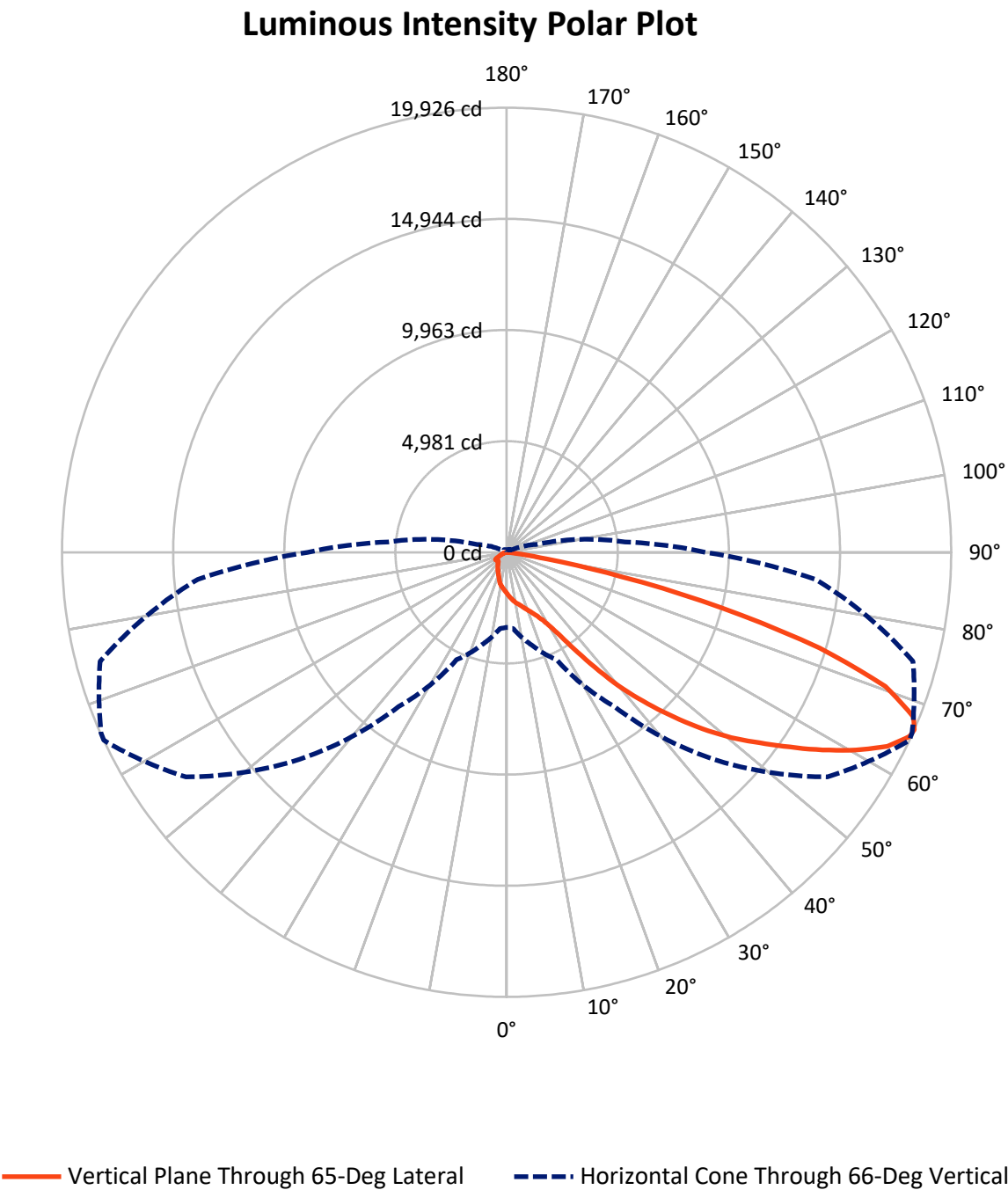
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type III - Short - N/A

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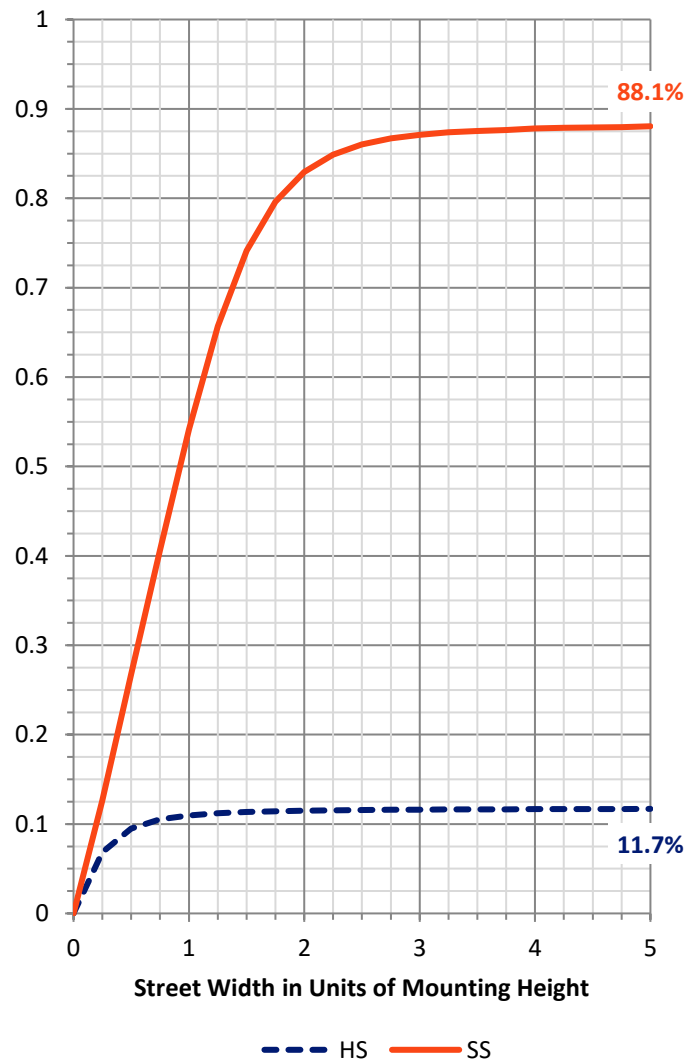
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2662.3	0.0	2662.3
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	19895.7	0.0	19895.7
	% Fixture	88.2	0.0	88.2
Total	Lumens	22558.0	0.0	22558.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.2	0.8
10°-20°	515.8	2.3
20°-30°	944.0	4.2
30°-40°	1918.2	8.5
40°-50°	4050.8	18.0
50°-60°	6227.4	27.6
60°-70°	6268.3	27.8
70°-80°	2342.2	10.4
80°-90°	117.0	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°	22558.0	100.0
0°-180°	22558.0	100.0

Coefficient of Utilization



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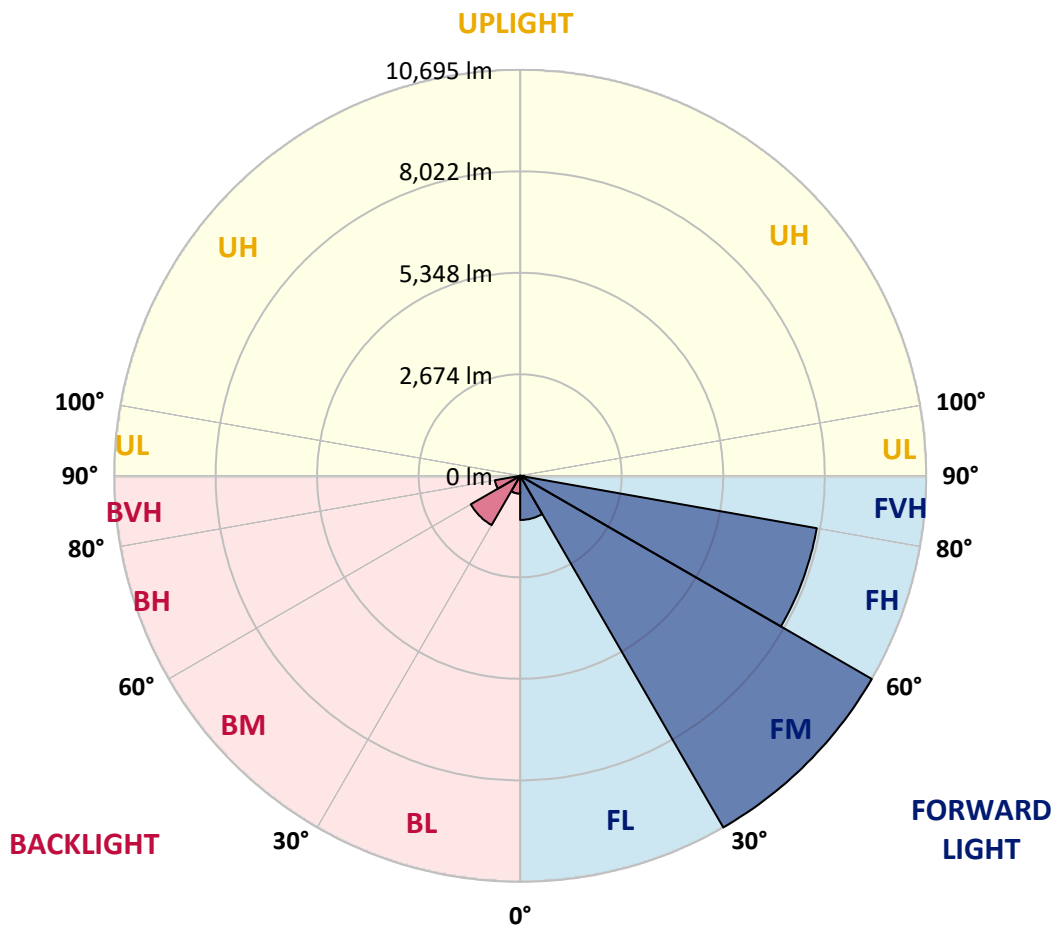
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1162.8	5.2			
FM	(30°-60°)	10695.4	47.4			
FH	(60°-80°)	7934.2	35.2			G4/12000
FVH	(80°-90°)	103.2	0.5			G2/225
BL	(0°-30°)	471.2	2.1	B1/500		
BM	(30°-60°)	1501.0	6.7	B2/2500		
BH	(60°-80°)	676.3	3.0	B2/1000		G2/1000
BVH	(80°-90°)	13.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1837.8	1837.8	1837.8	1837.8	1837.8	1837.8	1837.8	1837.8	1837.8	1837.8	1837.8
2.5°	2095.7	2099.8	2091.6	2075.2	2058.9	2038.4	2005.7	1952.5	1944.3	1907.4	1866.5
5°	2239.0	2247.2	2234.9	2230.8	2222.6	2193.9	2148.9	2071.2	2063.0	1989.3	1895.1
7.5°	2288.1	2300.4	2292.2	2292.2	2292.2	2279.9	2259.4	2189.9	2177.6	2083.4	1940.2
10°	2324.9	2333.1	2329.0	2345.4	2357.7	2349.5	2337.2	2296.3	2284.0	2189.9	2001.6
12.5°	2382.2	2386.3	2390.4	2398.6	2419.1	2427.3	2423.2	2386.3	2378.1	2312.7	2079.3
15°	2435.4	2435.4	2439.5	2476.4	2505.0	2521.4	2525.5	2496.8	2488.7	2435.4	2177.6
17.5°	2484.6	2488.7	2500.9	2541.9	2591.0	2623.7	2644.2	2631.9	2619.6	2578.7	2292.2
20°	2558.2	2566.4	2578.7	2636.0	2685.1	2738.3	2779.3	2775.2	2771.1	2742.4	2427.3
22.5°	2685.1	2693.3	2713.8	2767.0	2816.1	2881.6	2951.2	2947.1	2934.8	2914.4	2586.9
25°	2877.5	2877.5	2889.8	2934.8	2996.2	3074.0	3139.5	3151.8	3139.5	3127.2	2787.5
27.5°	3119.0	3123.1	3123.1	3172.2	3229.5	3327.8	3409.6	3421.9	3421.9	3409.6	3057.6
30°	3454.7	3442.4	3434.2	3475.1	3536.5	3679.8	3823.0	3847.6	3835.3	3855.8	3438.3
32.5°	4031.8	4011.3	3941.7	3949.9	3986.8	4183.2	4424.7	4510.7	4506.6	4543.4	4052.3
35°	4830.0	4789.0	4686.7	4600.7	4596.7	4809.5	5177.9	5501.2	5497.2	5624.0	4985.5
37.5°	5730.5	5783.7	5591.3	5443.9	5398.9	5566.7	6041.5	6741.5	6778.3	6999.4	6209.4
40°	6933.9	6966.6	6721.0	6512.3	6299.4	6360.8	6987.1	8075.9	8141.4	8386.9	7433.2
42.5°	7981.7	8014.5	7871.2	7617.4	7347.3	7232.7	7940.8	9287.4	9340.7	9680.4	8693.9
45°	8693.9	8718.5	8767.6	8792.2	8485.2	8247.8	9107.3	10531.8	10597.3	10990.2	9926.0
47.5°	9250.6	9271.1	9369.3	9614.9	9553.5	9365.2	10294.4	11825.2	11841.6	12279.6	11125.3
50°	9508.5	9557.6	9799.1	10175.7	10445.8	10499.0	11583.7	13049.1	13094.1	13511.6	12259.1
52.5°	9222.0	9238.3	9848.2	10556.3	11100.7	11641.0	12877.2	14182.9	14313.9	14625.0	13278.3
55°	8256.0	8374.7	9299.7	10544.1	11616.5	12725.7	14260.7	15406.8	15525.5	15721.9	14174.7
57.5°	7134.4	7265.4	8391.0	10016.0	11837.5	13728.6	15541.8	16708.4	16790.3	16843.5	14997.4
60°	6164.3	6287.1	7445.5	9005.0	11616.5	14436.7	16733.0	18001.8	18071.4	17928.2	15410.9
62.5°	4973.2	5096.0	6262.6	7666.5	10748.7	14579.9	17617.1	19152.0	19180.7	18791.8	15157.1
65°	3749.4	3831.2	4805.4	6008.8	9230.1	13818.6	17817.7	19868.3	19839.7	19041.5	14395.7
66°	3360.5	3430.1	4289.7	5313.0	8440.2	13122.8	17547.5	19925.6	19897.0	18857.3	13896.4
67.5°	2898.0	2918.4	3626.6	4347.0	7060.8	11645.1	16724.8	19663.7	19688.2	18349.8	12983.6
70°	2263.5	2259.4	2668.8	3024.9	4821.8	8284.6	13949.6	18014.1	18132.8	16434.2	11072.1
72.5°	1449.0	1399.9	1637.3	1850.1	2807.9	4809.5	10171.6	14682.3	14882.8	12909.9	8247.8
75°	863.7	814.5	871.8	925.1	1346.7	2312.7	5980.2	9991.5	10183.9	8276.4	4907.7
77.5°	646.7	626.3	630.4	585.3	597.6	867.8	2730.2	5280.2	5419.4	3389.2	1862.4
80°	495.3	442.1	413.4	433.9	392.9	343.8	1015.1	1817.4	1903.3	802.3	388.9
82.5°	331.5	286.5	266.1	290.6	249.7	192.4	245.6	352.0	343.8	216.9	151.4
85°	171.9	147.4	147.4	147.4	126.9	94.1	106.4	143.3	143.3	114.6	90.1
87.5°	49.1	45.0	53.2	49.1	36.8	36.8	40.9	49.1	49.1	45.0	40.9
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°	1837.8	1837.8	1837.8	1837.8	1837.8	1837.8	1837.8	1837.8	1837.8	1837.8	1837.8
2.5°	1833.7	1817.4	1772.4	1739.6	1706.9	1678.2	1645.5	1637.3	1620.9	1625.0	1616.8
5°	1846.0	1801.0	1723.2	1649.6	1592.3	1543.1	1481.7	1457.2	1424.4	1412.2	1404.0
7.5°	1862.4	1796.9	1682.3	1580.0	1481.7	1383.5	1285.3	1228.0	1191.1	1174.7	1162.5
10°	1899.2	1813.3	1661.8	1502.2	1334.4	1195.2	1097.0	1056.0	1031.5	1027.4	1023.3
12.5°	1948.4	1837.8	1641.4	1404.0	1182.9	1051.9	990.6	978.3	974.2	974.2	970.1
15°	2022.0	1878.8	1608.6	1289.4	1064.2	974.2	945.5	925.1	916.9	916.9	916.9
17.5°	2095.7	1927.9	1559.5	1170.7	982.4	925.1	896.4	884.1	875.9	880.0	875.9
20°	2189.9	1985.2	1494.0	1068.3	929.2	884.1	855.5	843.2	839.1	839.1	839.1
22.5°	2296.3	2050.7	1412.2	990.6	884.1	843.2	814.5	802.3	794.1	798.2	798.2
25°	2439.5	2132.6	1326.2	912.8	839.1	802.3	769.5	753.1	753.1	757.2	761.3
27.5°	2623.7	2230.8	1240.2	863.7	798.2	761.3	724.5	708.1	712.2	720.4	720.4
30°	2893.9	2365.9	1154.3	810.5	753.1	712.2	679.5	663.1	671.3	687.7	687.7
32.5°	3278.6	2586.9	1080.6	749.1	687.7	642.6	609.9	597.6	618.1	650.8	650.8
35°	3966.3	2992.1	1035.6	687.7	618.1	564.9	523.9	511.6	540.3	581.2	581.2
37.5°	4887.3	3642.9	1051.9	634.4	560.8	499.4	454.3	438.0	458.4	495.3	507.6
40°	5914.7	4428.8	1195.2	589.4	507.6	446.2	401.1	384.8	397.0	413.4	417.5
42.5°	6942.1	5263.8	1465.4	556.7	466.6	401.1	360.2	347.9	356.1	360.2	364.3
45°	7965.3	6090.7	1805.1	536.2	429.8	364.3	323.4	323.4	327.5	327.5	327.5
47.5°	8935.4	6897.0	2161.2	532.1	397.0	327.5	294.7	298.8	298.8	302.9	302.9
50°	9852.3	7617.4	2521.4	544.4	368.4	294.7	270.2	270.2	270.2	274.2	270.2
52.5°	10617.7	8247.8	2898.0	564.9	339.7	270.2	245.6	245.6	245.6	249.7	245.6
55°	11342.2	8820.8	3282.7	593.5	315.2	249.7	225.1	216.9	216.9	221.0	216.9
57.5°	11931.6	9201.5	3647.0	597.6	294.7	229.2	208.8	196.5	196.5	196.5	196.5
60°	11956.2	8980.5	3753.5	523.9	270.2	208.8	188.3	171.9	176.0	176.0	176.0
62.5°	11174.4	7818.0	3016.7	392.9	241.5	188.3	171.9	155.5	155.5	155.5	155.5
65°	9639.5	6082.5	1768.3	311.1	208.8	167.8	151.4	139.2	139.2	139.2	135.1
66°	8919.1	5333.4	1354.8	282.4	196.5	163.7	147.4	135.1	131.0	126.9	126.9
67.5°	7744.3	4216.0	847.3	249.7	180.1	151.4	135.1	122.8	118.7	114.6	114.6
70°	5832.8	2676.9	413.4	192.4	155.5	131.0	118.7	106.4	102.3	98.2	94.1
72.5°	4093.2	1567.7	216.9	147.4	126.9	114.6	102.3	90.1	86.0	81.9	81.9
75°	2312.7	757.2	143.3	106.4	102.3	94.1	86.0	73.7	69.6	69.6	69.6
77.5°	875.9	262.0	98.2	77.8	81.9	73.7	61.4	61.4	57.3	61.4	57.3
80°	229.2	114.6	61.4	57.3	61.4	53.2	45.0	49.1	49.1	49.1	49.1
82.5°	122.8	65.5	36.8	40.9	36.8	36.8	28.7	32.7	36.8	32.7	36.8
85°	86.0	32.7	20.5	20.5	16.4	16.4	12.3	16.4	20.5	16.4	16.4
87.5°	45.0	12.3	12.3	12.3	12.3	8.2	4.1	0.0	4.1	4.1	4.1
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)