

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: P1211038

Luminaire Tested: **ARCH4-150-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211038
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: ARCH4-150-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1230mA 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: 16962 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

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

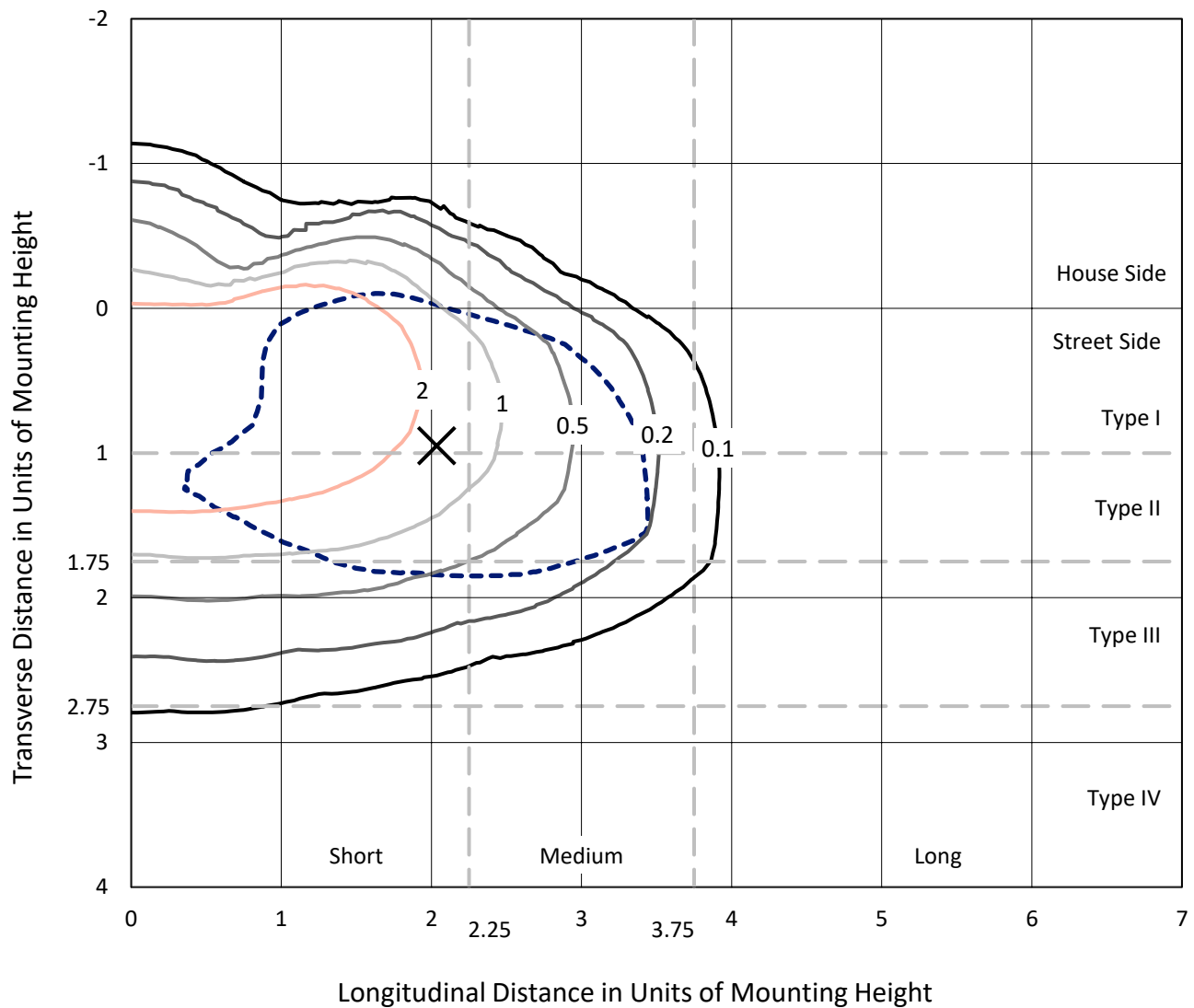


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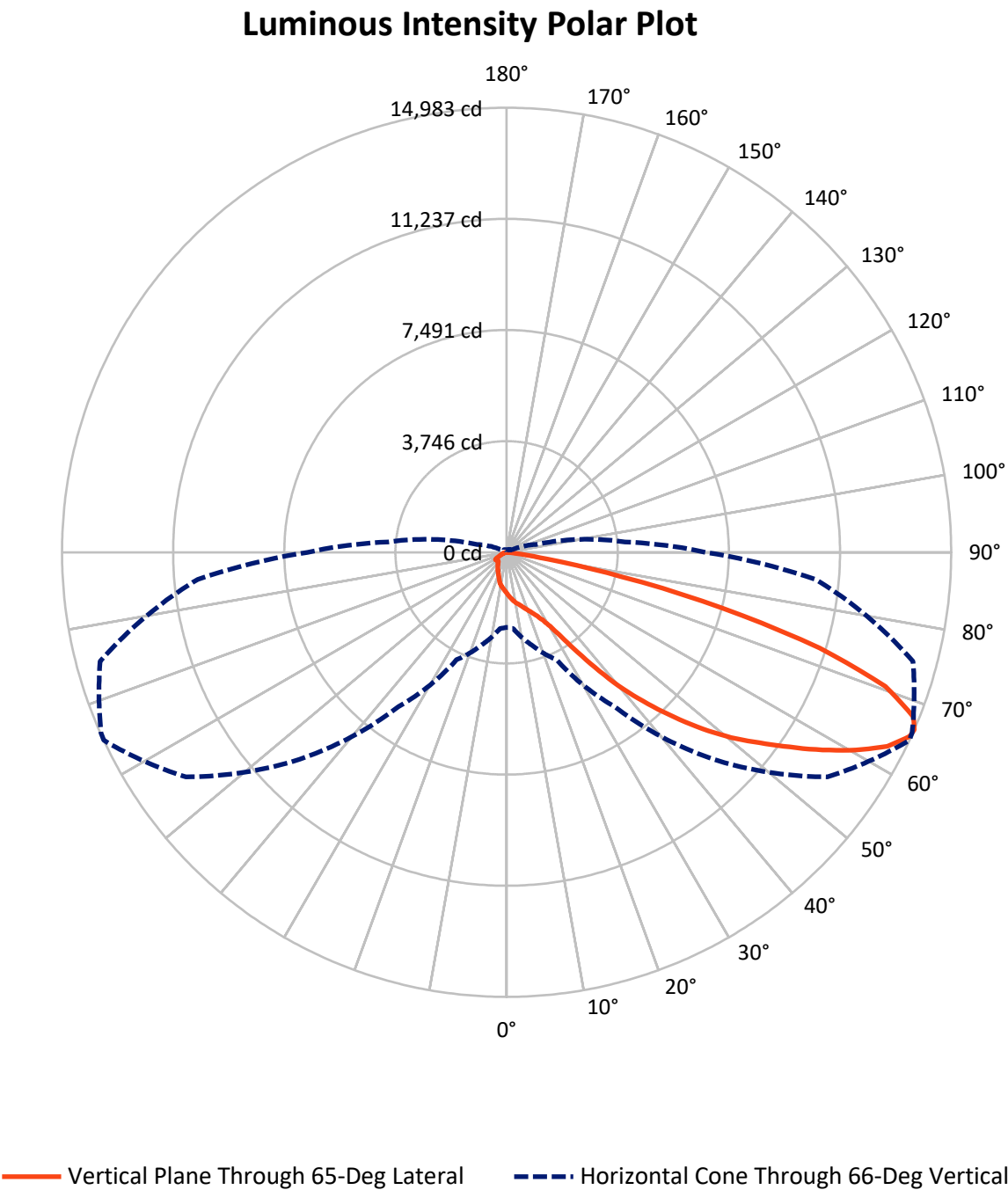
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
Type III - Short - N/A

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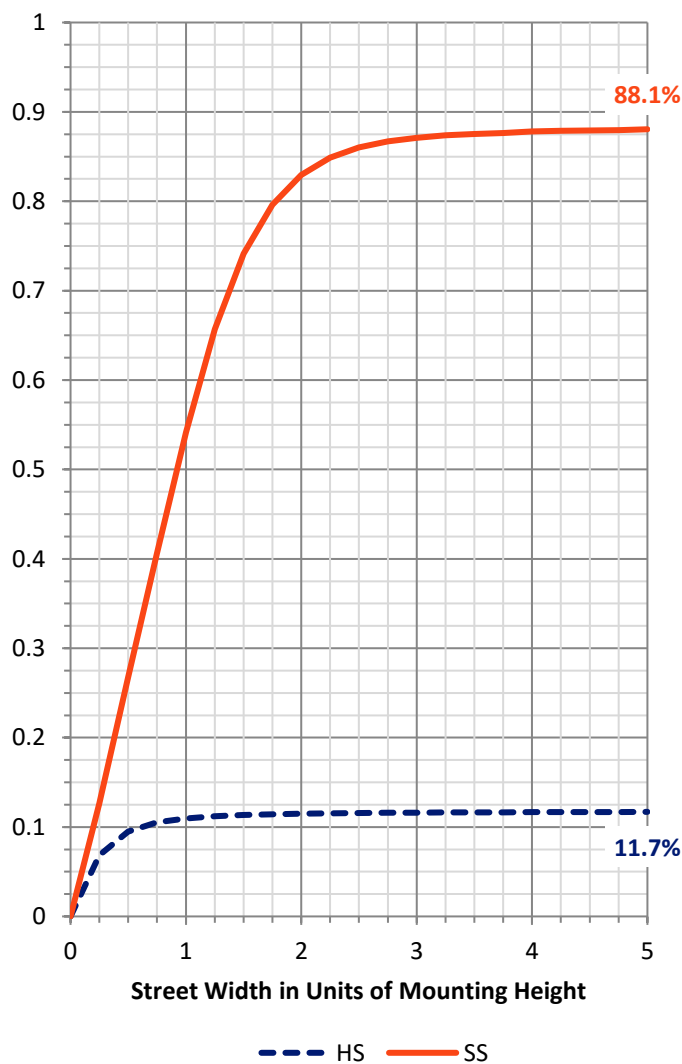
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2001.9	0.0	2001.9
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	14960.1	0.0	14960.1
	% Fixture	88.2	0.0	88.2
Total	Lumens	16962.0	0.0	16962.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.0	0.8
10°-20°	387.8	2.3
20°-30°	709.9	4.2
30°-40°	1442.4	8.5
40°-50°	3045.9	18.0
50°-60°	4682.6	27.6
60°-70°	4713.3	27.8
70°-80°	1761.1	10.4
80°-90°	88.0	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°	16962.0	100.0
0°-180°	16962.0	100.0

Coefficient of Utilization



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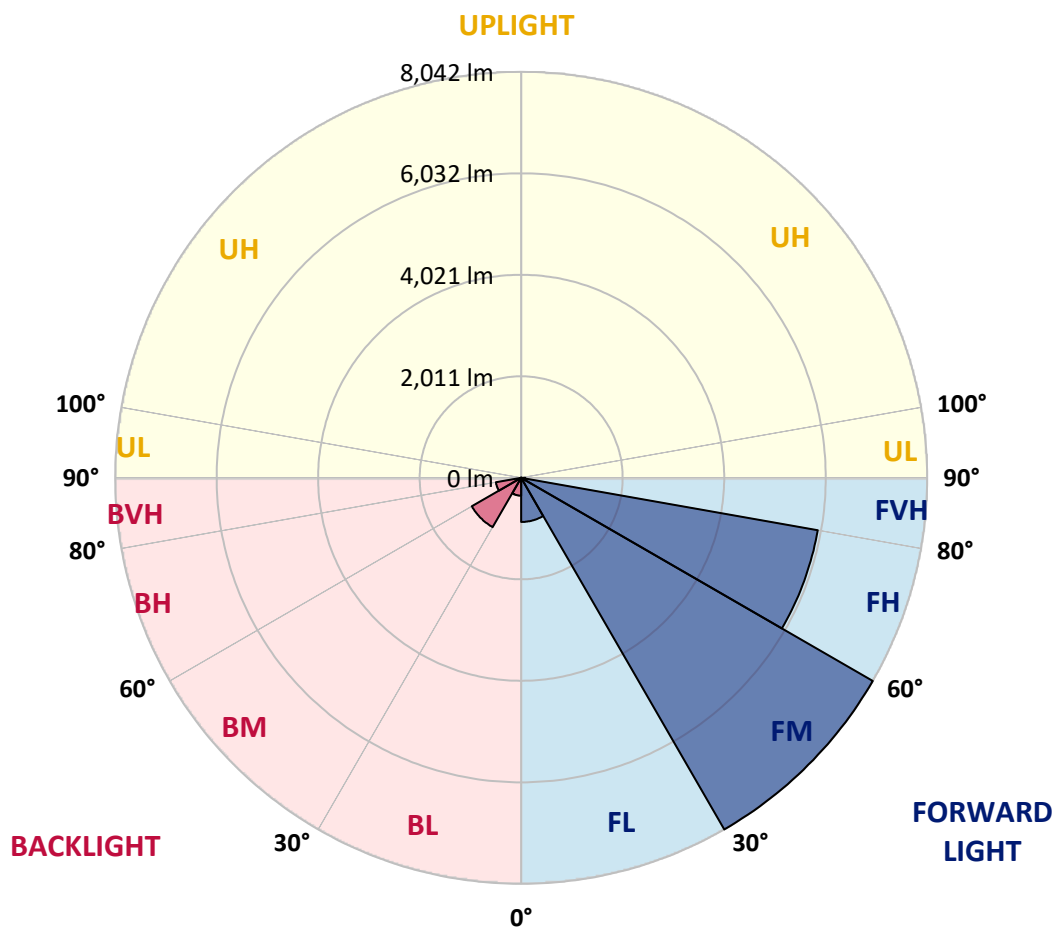
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	874.4	5.2			
FM	(30°-60°)	8042.2	47.4			
FH	(60°-80°)	5965.9	35.2			G3/7500
FVH	(80°-90°)	77.6	0.5			G1/100
BL	(0°-30°)	354.3	2.1	B1/500		
BM	(30°-60°)	1128.7	6.7	B2/2500		
BH	(60°-80°)	508.5	3.0	B2/1000		G2/1000
BVH	(80°-90°)	10.3	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9
2.5°	1575.8	1578.9	1572.7	1560.4	1548.1	1532.7	1508.1	1468.1	1461.9	1434.2	1403.5
5°	1683.5	1689.7	1680.5	1677.4	1671.2	1649.7	1615.8	1557.4	1551.2	1495.8	1425.0
7.5°	1720.5	1729.7	1723.6	1723.6	1723.6	1714.3	1698.9	1646.6	1637.4	1566.6	1458.9
10°	1748.2	1754.3	1751.3	1763.6	1772.8	1766.6	1757.4	1726.6	1717.4	1646.6	1505.0
12.5°	1791.3	1794.3	1797.4	1803.6	1819.0	1825.1	1822.0	1794.3	1788.2	1738.9	1563.5
15°	1831.3	1831.3	1834.4	1862.1	1883.6	1895.9	1899.0	1877.4	1871.3	1831.3	1637.4
17.5°	1868.2	1871.3	1880.5	1911.3	1948.2	1972.9	1988.2	1979.0	1969.8	1939.0	1723.6
20°	1923.6	1929.8	1939.0	1982.1	2019.0	2059.0	2089.8	2086.7	2083.7	2062.1	1825.1
22.5°	2019.0	2025.2	2040.6	2080.6	2117.5	2166.8	2219.1	2216.0	2206.8	2191.4	1945.2
25°	2163.7	2163.7	2172.9	2206.8	2252.9	2311.4	2360.7	2369.9	2360.7	2351.4	2096.0
27.5°	2345.3	2348.4	2348.4	2385.3	2428.4	2502.2	2563.8	2573.0	2573.0	2563.8	2299.1
30°	2597.7	2588.4	2582.3	2613.0	2659.2	2766.9	2874.7	2893.1	2883.9	2899.3	2585.3
32.5°	3031.6	3016.2	2963.9	2970.1	2997.8	3145.5	3327.1	3391.7	3388.6	3416.3	3047.0
35°	3631.8	3601.0	3524.1	3459.4	3456.4	3616.4	3893.4	4136.5	4133.5	4228.9	3748.7
37.5°	4308.9	4348.9	4204.3	4093.5	4059.6	4185.8	4542.8	5069.1	5096.8	5263.0	4669.0
40°	5213.8	5238.4	5053.7	4896.8	4736.7	4782.9	5253.8	6072.5	6121.7	6306.4	5589.3
42.5°	6001.7	6026.3	5918.6	5727.8	5524.6	5438.4	5970.9	6983.5	7023.5	7279.0	6537.2
45°	6537.2	6555.7	6592.6	6611.1	6380.2	6201.7	6848.1	7919.1	7968.4	8263.9	7463.6
47.5°	6955.8	6971.2	7045.1	7229.7	7183.6	7042.0	7740.6	8891.7	8904.0	9233.4	8365.4
50°	7149.7	7186.6	7368.2	7651.4	7854.5	7894.5	8710.1	9812.0	9845.8	10159.8	9218.0
52.5°	6934.3	6946.6	7405.2	7937.6	8347.0	8753.2	9682.7	10664.5	10763.0	10996.9	9984.3
55°	6207.9	6297.1	6992.7	7928.4	8734.8	9568.8	10723.0	11584.8	11674.0	11821.8	10658.4
57.5°	5364.6	5463.1	6309.5	7531.3	8901.0	10322.9	11686.4	12563.5	12625.1	12665.1	11277.0
60°	4635.1	4727.5	5598.5	6771.1	8734.8	10855.4	12582.0	13536.1	13588.4	13480.7	11587.9
62.5°	3739.5	3831.8	4709.0	5764.7	8082.3	10963.1	13246.8	14401.0	14422.5	14130.1	11397.0
65°	2819.3	2880.8	3613.3	4518.2	6940.4	10390.6	13397.6	14939.6	14918.0	14317.9	10824.6
66°	2526.9	2579.2	3225.5	3995.0	6346.4	9867.4	13194.5	14982.7	14961.1	14179.4	10449.1
67.5°	2179.1	2194.5	2726.9	3268.6	5309.2	8756.3	12575.8	14785.7	14804.1	13797.7	9762.7
70°	1702.0	1698.9	2006.7	2274.5	3625.6	6229.4	10489.1	13545.3	13634.6	12357.3	8325.4
72.5°	1089.5	1052.6	1231.1	1391.2	2111.4	3616.4	7648.3	11040.0	11190.8	9707.3	6201.7
75°	649.4	612.5	655.6	695.6	1012.6	1738.9	4496.6	7512.9	7657.5	6223.3	3690.3
77.5°	486.3	470.9	474.0	440.1	449.4	652.5	2052.9	3970.3	4075.0	2548.4	1400.4
80°	372.4	332.4	310.9	326.2	295.5	258.5	763.3	1366.5	1431.2	603.2	292.4
82.5°	249.3	215.4	200.1	218.5	187.7	144.7	184.7	264.7	258.5	163.1	113.9
85°	129.3	110.8	110.8	110.8	95.4	70.8	80.0	107.7	107.7	86.2	67.7
87.5°	36.9	33.9	40.0	36.9	27.7	27.7	30.8	36.9	36.9	33.9	30.8
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°	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9
2.5°	1378.8	1366.5	1332.7	1308.1	1283.4	1261.9	1237.3	1231.1	1218.8	1221.9	1215.7
5°	1388.1	1354.2	1295.7	1240.3	1197.3	1160.3	1114.2	1095.7	1071.1	1061.8	1055.7
7.5°	1400.4	1351.1	1265.0	1188.0	1114.2	1040.3	966.4	923.3	895.6	883.3	874.1
10°	1428.1	1363.5	1249.6	1129.5	1003.4	898.7	824.8	794.1	775.6	772.5	769.4
12.5°	1465.0	1381.9	1234.2	1055.7	889.5	791.0	744.8	735.6	732.5	732.5	729.4
15°	1520.4	1412.7	1209.6	969.5	800.2	732.5	711.0	695.6	689.4	689.4	689.4
17.5°	1575.8	1449.6	1172.6	880.2	738.7	695.6	674.0	664.8	658.6	661.7	658.6
20°	1646.6	1492.7	1123.4	803.3	698.7	664.8	643.3	634.0	630.9	630.9	630.9
22.5°	1726.6	1542.0	1061.8	744.8	664.8	634.0	612.5	603.2	597.1	600.2	600.2
25°	1834.4	1603.5	997.2	686.3	630.9	603.2	578.6	566.3	566.3	569.4	572.5
27.5°	1972.9	1677.4	932.6	649.4	600.2	572.5	544.8	532.5	535.5	541.7	541.7
30°	2176.0	1779.0	867.9	609.4	566.3	535.5	510.9	498.6	504.8	517.1	517.1
32.5°	2465.3	1945.2	812.5	563.2	517.1	483.2	458.6	449.4	464.7	489.4	489.4
35°	2982.4	2249.9	778.7	517.1	464.7	424.7	394.0	384.7	406.3	437.0	437.0
37.5°	3674.9	2739.2	791.0	477.1	421.7	375.5	341.6	329.3	344.7	372.4	381.6
40°	4447.4	3330.2	898.7	443.2	381.6	335.5	301.6	289.3	298.5	310.9	313.9
42.5°	5219.9	3958.0	1101.8	418.6	350.9	301.6	270.8	261.6	267.8	270.8	273.9
45°	5989.4	4579.7	1357.3	403.2	323.2	273.9	243.1	243.1	246.2	246.2	246.2
47.5°	6718.8	5186.1	1625.1	400.1	298.5	246.2	221.6	224.7	224.7	227.8	227.8
50°	7408.2	5727.8	1895.9	409.3	277.0	221.6	203.1	203.1	203.1	206.2	203.1
52.5°	7983.8	6201.7	2179.1	424.7	255.5	203.1	184.7	184.7	184.7	187.7	184.7
55°	8528.5	6632.6	2468.4	446.3	237.0	187.7	169.3	163.1	163.1	166.2	163.1
57.5°	8971.7	6918.9	2742.3	449.4	221.6	172.4	157.0	147.7	147.7	147.7	147.7
60°	8990.2	6752.7	2822.3	394.0	203.1	157.0	141.6	129.3	132.3	132.3	132.3
62.5°	8402.4	5878.6	2268.3	295.5	181.6	141.6	129.3	117.0	117.0	117.0	117.0
65°	7248.2	4573.6	1329.6	233.9	157.0	126.2	113.9	104.6	104.6	104.6	101.6
66°	6706.5	4010.4	1018.7	212.4	147.7	123.1	110.8	101.6	98.5	95.4	95.4
67.5°	5823.2	3170.1	637.1	187.7	135.4	113.9	101.6	92.3	89.3	86.2	86.2
70°	4385.8	2012.9	310.9	144.7	117.0	98.5	89.3	80.0	76.9	73.9	70.8
72.5°	3077.8	1178.8	163.1	110.8	95.4	86.2	76.9	67.7	64.6	61.6	61.6
75°	1738.9	569.4	107.7	80.0	76.9	70.8	64.6	55.4	52.3	52.3	52.3
77.5°	658.6	197.0	73.9	58.5	61.6	55.4	46.2	46.2	43.1	46.2	43.1
80°	172.4	86.2	46.2	43.1	46.2	40.0	33.9	36.9	36.9	36.9	36.9
82.5°	92.3	49.2	27.7	30.8	27.7	27.7	21.5	24.6	27.7	24.6	27.7
85°	64.6	24.6	15.4	15.4	12.3	12.3	9.2	12.3	15.4	12.3	12.3
87.5°	33.9	9.2	9.2	9.2	9.2	6.2	3.1	0.0	3.1	3.1	3.1
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)