

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: P1211126

Luminaire Tested: **ARCH4-180-722-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211126
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: ARCH4-180-722-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1455mA 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: 17162 lumens
Efficiency: N/A
Efficacy: 95.3 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): 180
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

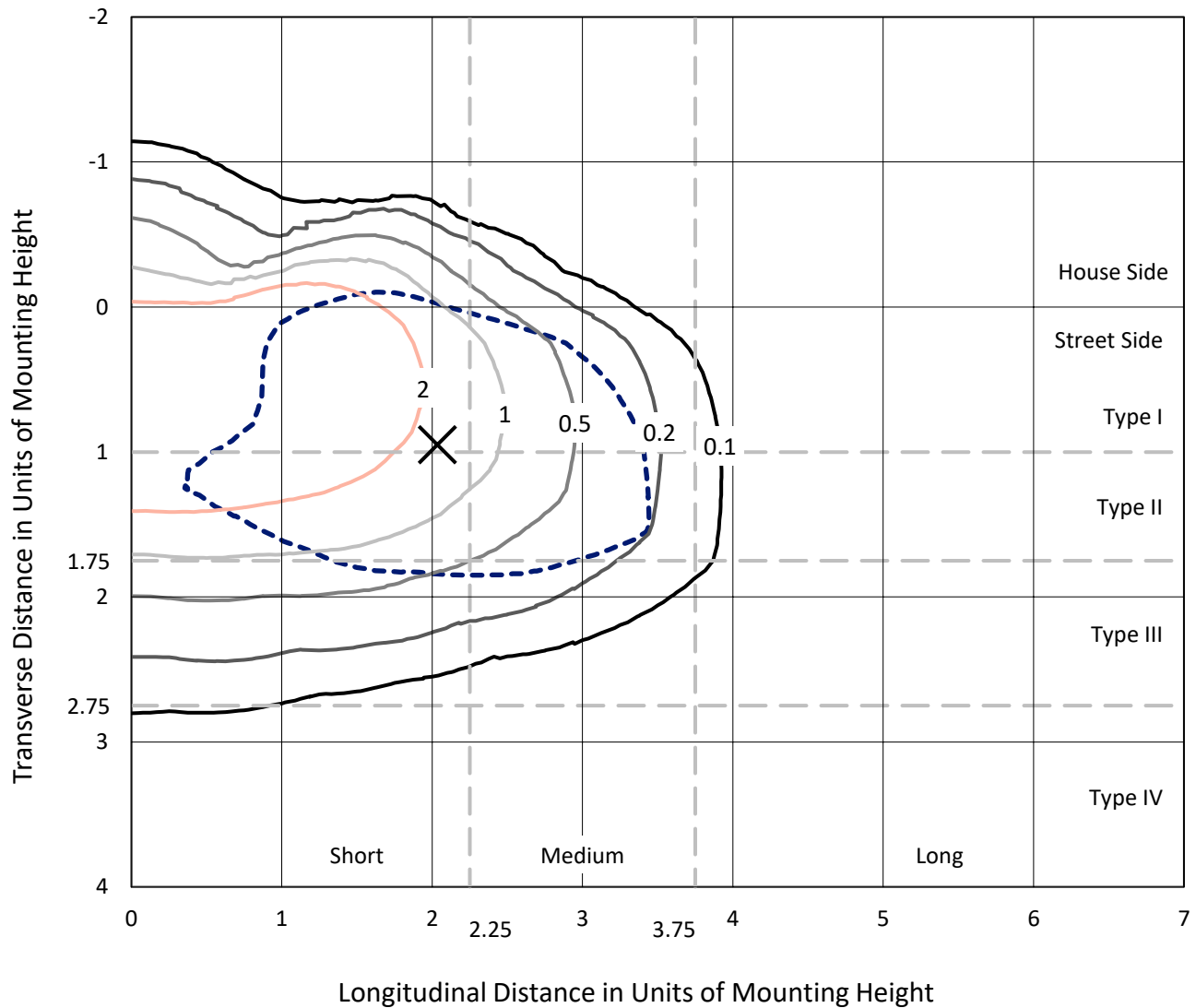


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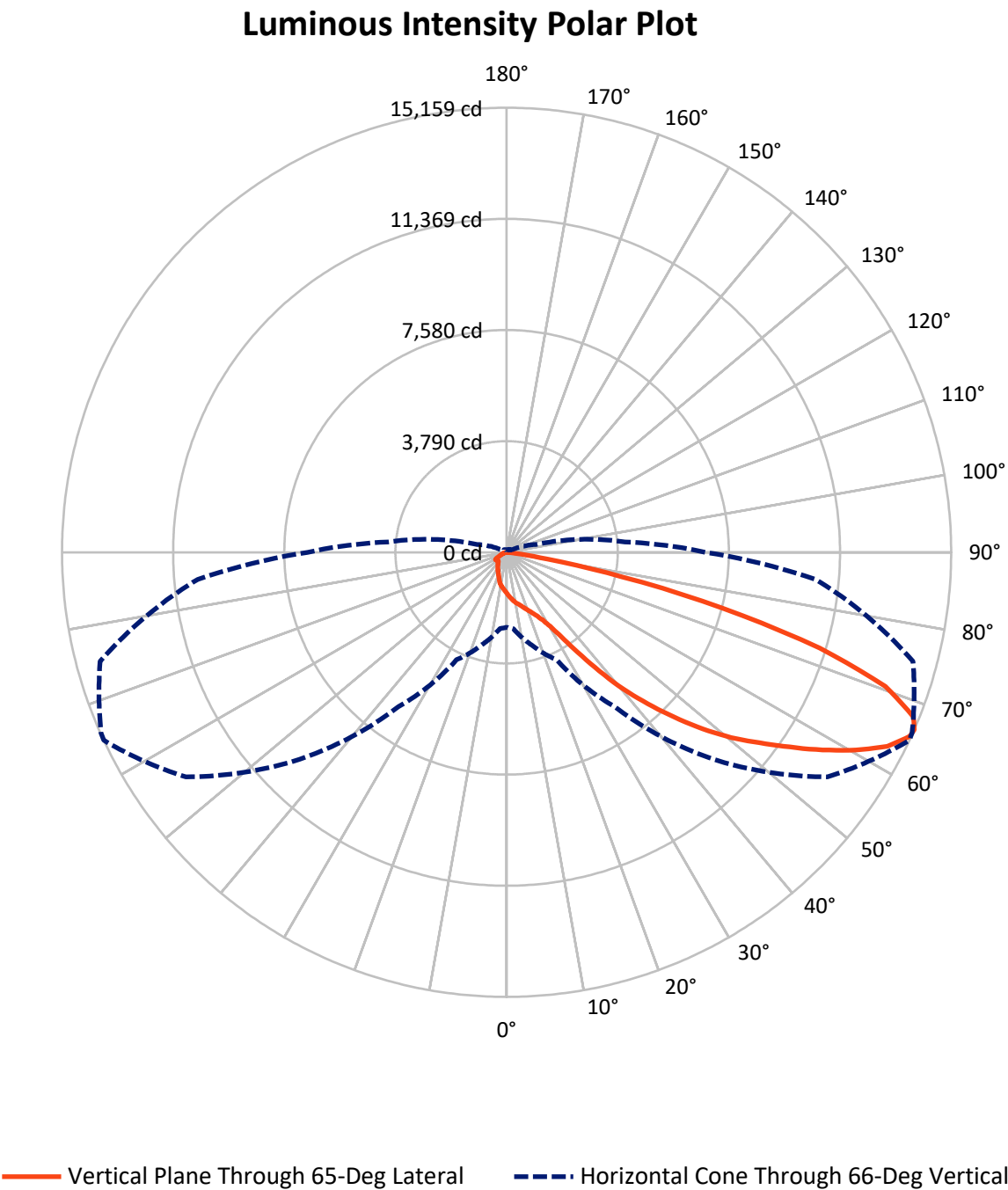
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type III - Short - N/A

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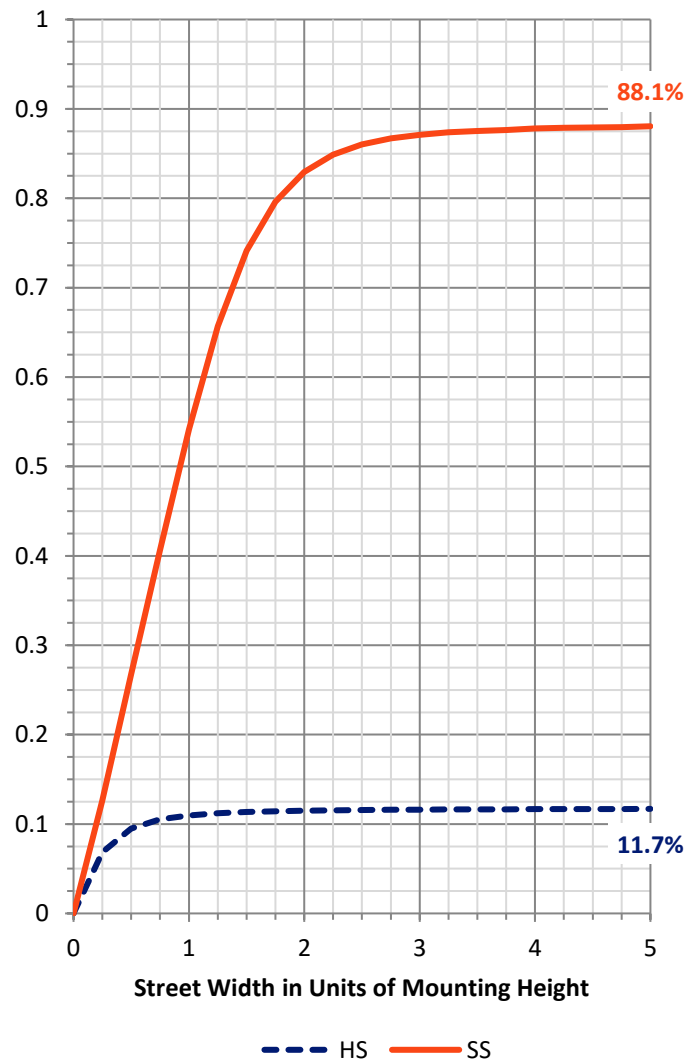
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2025.5	0.0	2025.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	15136.5	0.0	15136.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	17162.0	0.0	17162.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.6	0.8
10°-20°	392.4	2.3
20°-30°	718.2	4.2
30°-40°	1459.4	8.5
40°-50°	3081.8	18.0
50°-60°	4737.8	27.6
60°-70°	4768.9	27.8
70°-80°	1781.9	10.4
80°-90°	89.0	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°	17162.0	100.0
0°-180°	17162.0	100.0

Coefficient of Utilization



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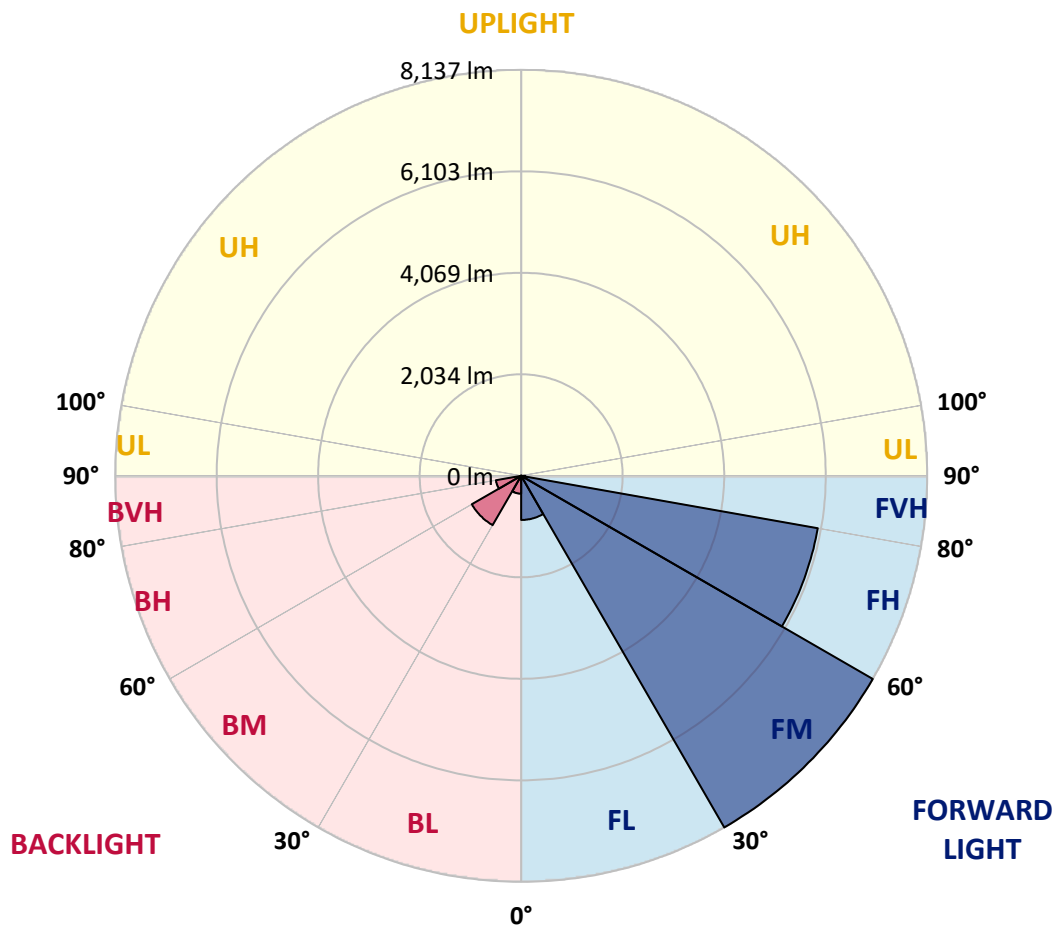
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	884.7	5.2			
FM	(30°-60°)	8137.0	47.4			
FH	(60°-80°)	6036.3	35.2			G3/7500
FVH	(80°-90°)	78.5	0.5			G1/100
BL	(0°-30°)	358.5	2.1	B1/500		
BM	(30°-60°)	1142.0	6.7	B2/2500		
BH	(60°-80°)	514.5	3.0	B2/1000		G2/1000
BVH	(80°-90°)	10.5	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°	1398.2	1398.2	1398.2	1398.2	1398.2	1398.2	1398.2	1398.2	1398.2	1398.2	1398.2
2.5°	1594.4	1597.5	1591.3	1578.8	1566.4	1550.8	1525.9	1485.4	1479.2	1451.2	1420.0
5°	1703.4	1709.6	1700.3	1697.2	1690.9	1669.1	1634.9	1575.7	1569.5	1513.4	1441.8
7.5°	1740.8	1750.1	1743.9	1743.9	1743.9	1734.5	1719.0	1666.0	1656.7	1585.1	1476.1
10°	1768.8	1775.0	1771.9	1784.4	1793.7	1787.5	1778.1	1747.0	1737.7	1666.0	1522.8
12.5°	1812.4	1815.5	1818.6	1824.8	1840.4	1846.6	1843.5	1815.5	1809.3	1759.5	1582.0
15°	1852.9	1852.9	1856.0	1884.0	1905.8	1918.3	1921.4	1899.6	1893.4	1852.9	1656.7
17.5°	1890.2	1893.4	1902.7	1933.8	1971.2	1996.1	2011.7	2002.4	1993.0	1961.9	1743.9
20°	1946.3	1952.5	1961.9	2005.5	2042.8	2083.3	2114.5	2111.3	2108.2	2086.4	1846.6
22.5°	2042.8	2049.1	2064.6	2105.1	2142.5	2192.3	2245.2	2242.1	2232.8	2217.2	1968.1
25°	2189.2	2189.2	2198.5	2232.8	2279.5	2338.7	2388.5	2397.8	2388.5	2379.2	2120.7
27.5°	2372.9	2376.0	2376.0	2413.4	2457.0	2531.7	2594.0	2603.4	2603.4	2594.0	2326.2
30°	2628.3	2618.9	2612.7	2643.9	2690.6	2799.6	2908.5	2927.2	2917.9	2933.5	2615.8
32.5°	3067.4	3051.8	2998.9	3005.1	3033.1	3182.6	3366.3	3431.7	3428.6	3456.6	3082.9
35°	3674.6	3643.5	3565.6	3500.2	3497.1	3659.0	3939.3	4185.3	4182.2	4278.7	3792.9
37.5°	4359.7	4400.2	4253.8	4141.7	4107.5	4235.1	4596.4	5128.9	5156.9	5325.1	4724.1
40°	5275.2	5300.2	5113.3	4954.5	4792.6	4839.3	5315.7	6144.1	6193.9	6380.7	5655.2
42.5°	6072.4	6097.4	5988.4	5795.3	5589.8	5502.6	6041.3	7065.8	7106.3	7364.8	6614.3
45°	6614.3	6633.0	6670.4	6689.0	6455.5	6274.9	6928.8	8012.5	8062.3	8361.3	7551.6
47.5°	7037.8	7053.4	7128.1	7315.0	7268.3	7125.0	7831.9	8996.6	9009.0	9342.2	8464.1
50°	7234.0	7271.4	7455.1	7741.6	7947.1	7987.6	8812.8	9927.7	9961.9	10279.6	9326.7
52.5°	7016.0	7028.5	7492.5	8031.2	8445.4	8856.4	9796.9	10790.3	10889.9	11126.6	10102.1
55°	6281.1	6371.4	7075.2	8021.9	8837.7	9681.7	10849.4	11721.4	11811.7	11961.2	10784.0
57.5°	5427.8	5527.5	6383.9	7620.1	9005.9	10444.6	11824.1	12711.7	12773.9	12814.4	11410.0
60°	4689.8	4783.2	5664.5	6851.0	8837.7	10983.3	12730.3	13695.7	13748.6	13639.7	11724.5
62.5°	3783.6	3877.0	4764.5	5832.7	8177.6	11092.3	13403.0	14570.8	14592.6	14296.7	11531.4
65°	2852.5	2914.8	3655.9	4571.5	7022.2	10513.1	13555.6	15115.7	15093.9	14486.7	10952.2
66°	2556.7	2609.6	3263.6	4042.1	6421.2	9983.7	13350.0	15159.3	15137.5	14346.5	10572.3
67.5°	2204.8	2220.3	2759.1	3307.1	5371.8	8859.5	12724.1	14960.0	14978.7	13960.4	9877.8
70°	1722.1	1719.0	2030.4	2301.3	3668.4	6302.9	10612.8	13705.0	13795.4	12503.0	8423.6
72.5°	1102.4	1065.0	1245.6	1407.6	2136.3	3659.0	7738.5	11170.2	11322.8	9821.8	6274.9
75°	657.1	619.7	663.3	703.8	1024.5	1759.5	4549.7	7601.5	7747.8	6296.7	3733.8
77.5°	492.0	476.5	479.6	445.3	454.7	660.2	2077.1	4017.2	4123.0	2578.5	1416.9
80°	376.8	336.3	314.5	330.1	299.0	261.6	772.3	1382.6	1448.0	610.4	295.8
82.5°	252.2	218.0	202.4	221.1	190.0	146.4	186.8	267.8	261.6	165.0	115.2
85°	130.8	112.1	112.1	112.1	96.5	71.6	81.0	109.0	109.0	87.2	68.5
87.5°	37.4	34.3	40.5	37.4	28.0	28.0	31.1	37.4	37.4	34.3	31.1
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°	1398.2	1398.2	1398.2	1398.2	1398.2	1398.2	1398.2	1398.2	1398.2	1398.2	1398.2
2.5°	1395.1	1382.6	1348.4	1323.5	1298.6	1276.8	1251.9	1245.6	1233.2	1236.3	1230.1
5°	1404.4	1370.2	1311.0	1255.0	1211.4	1174.0	1127.3	1108.6	1083.7	1074.4	1068.1
7.5°	1416.9	1367.1	1279.9	1202.0	1127.3	1052.6	977.8	934.2	906.2	893.7	884.4
10°	1444.9	1379.5	1264.3	1142.9	1015.2	909.3	834.6	803.4	784.7	781.6	778.5
12.5°	1482.3	1398.2	1248.7	1068.1	900.0	800.3	753.6	744.3	741.2	741.2	738.0
15°	1538.4	1429.4	1223.8	980.9	809.7	741.2	719.4	703.8	697.6	697.6	697.6
17.5°	1594.4	1466.7	1186.5	890.6	747.4	703.8	682.0	672.6	666.4	669.5	666.4
20°	1666.0	1510.3	1136.6	812.8	706.9	672.6	650.8	641.5	638.4	638.4	638.4
22.5°	1747.0	1560.2	1074.4	753.6	672.6	641.5	619.7	610.4	604.1	607.2	607.2
25°	1856.0	1622.4	1009.0	694.4	638.4	610.4	585.4	573.0	573.0	576.1	579.2
27.5°	1996.1	1697.2	943.6	657.1	607.2	579.2	551.2	538.7	541.8	548.1	548.1
30°	2201.7	1799.9	878.2	616.6	573.0	541.8	516.9	504.5	510.7	523.2	523.2
32.5°	2494.4	1968.1	822.1	569.9	523.2	488.9	464.0	454.7	470.2	495.1	495.1
35°	3017.5	2276.4	787.9	523.2	470.2	429.7	398.6	389.3	411.1	442.2	442.2
37.5°	3718.2	2771.5	800.3	482.7	426.6	379.9	345.7	333.2	348.8	376.8	386.1
40°	4499.8	3369.4	909.3	448.4	386.1	339.4	305.2	292.7	302.1	314.5	317.6
42.5°	5281.5	4004.7	1114.8	423.5	355.0	305.2	274.0	264.7	270.9	274.0	277.2
45°	6060.0	4633.7	1373.3	407.9	327.0	277.2	246.0	246.0	249.1	249.1	249.1
47.5°	6798.0	5247.2	1644.2	404.8	302.1	249.1	224.2	227.3	227.3	230.4	230.4
50°	7495.6	5795.3	1918.3	414.2	280.3	224.2	205.5	205.5	205.5	208.6	205.5
52.5°	8077.9	6274.9	2204.8	429.7	258.5	205.5	186.8	186.8	186.8	190.0	186.8
55°	8629.1	6710.8	2497.5	451.5	239.8	190.0	171.3	165.0	165.0	168.2	165.0
57.5°	9077.5	7000.4	2774.6	454.7	224.2	174.4	158.8	149.5	149.5	149.5	149.5
60°	9096.2	6832.3	2855.6	398.6	205.5	158.8	143.2	130.8	133.9	133.9	133.9
62.5°	8501.4	5947.9	2295.1	299.0	183.7	143.2	130.8	118.3	118.3	118.3	118.3
65°	7333.6	4627.5	1345.3	236.7	158.8	127.7	115.2	105.9	105.9	105.9	102.8
66°	6785.6	4057.6	1030.8	214.9	149.5	124.6	112.1	102.8	99.7	96.5	96.5
67.5°	5891.8	3207.5	644.6	190.0	137.0	115.2	102.8	93.4	90.3	87.2	87.2
70°	4437.6	2036.6	314.5	146.4	118.3	99.7	90.3	81.0	77.9	74.7	71.6
72.5°	3114.1	1192.7	165.0	112.1	96.5	87.2	77.9	68.5	65.4	62.3	62.3
75°	1759.5	576.1	109.0	81.0	77.9	71.6	65.4	56.1	52.9	52.9	52.9
77.5°	666.4	199.3	74.7	59.2	62.3	56.1	46.7	46.7	43.6	46.7	43.6
80°	174.4	87.2	46.7	43.6	46.7	40.5	34.3	37.4	37.4	37.4	37.4
82.5°	93.4	49.8	28.0	31.1	28.0	28.0	21.8	24.9	28.0	24.9	28.0
85°	65.4	24.9	15.6	15.6	12.5	12.5	9.3	12.5	15.6	12.5	12.5
87.5°	34.3	9.3	9.3	9.3	9.3	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)