

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: P1211114

Luminaire Tested: **ARCH4-170-750-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211114
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: ARCH4-170-750-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1380mA 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: 19679 lumens
Efficiency: N/A
Efficacy: 115.9 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): 169.8
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



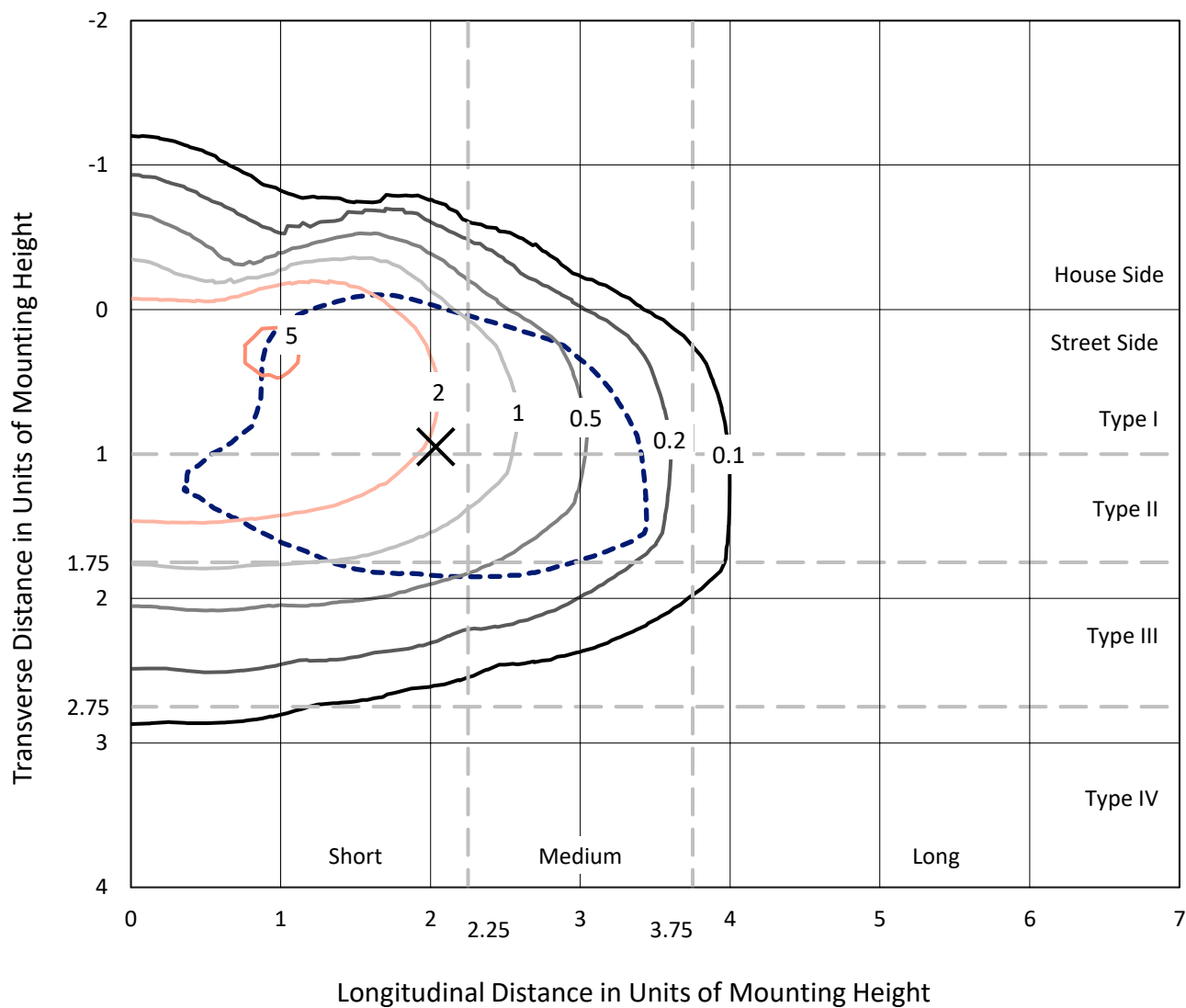
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Iso-Footcandle Lines of Horizontal Illumination

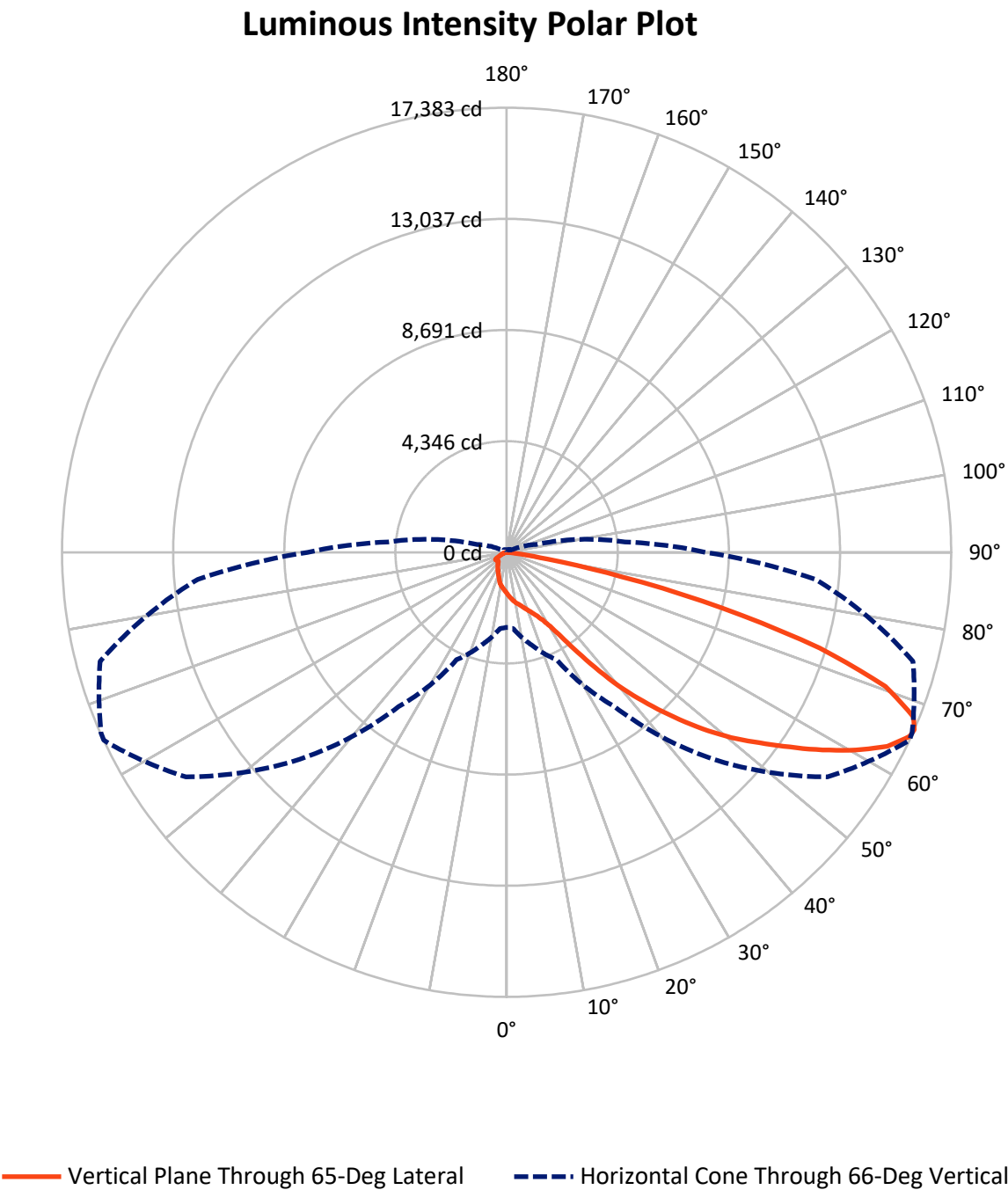
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - N/A

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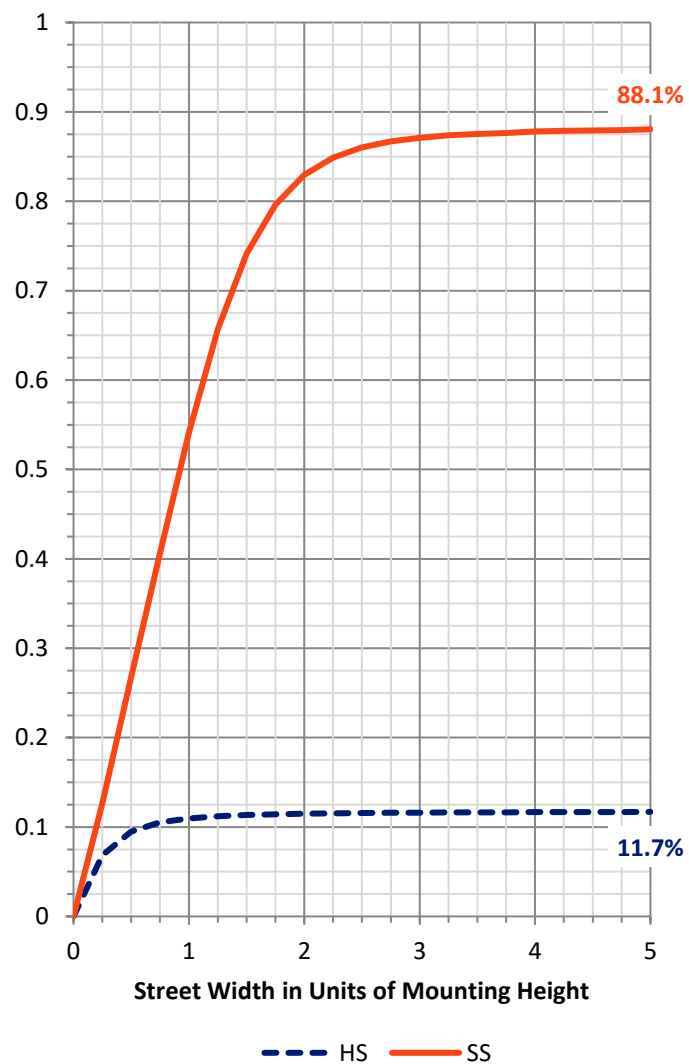
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2322.5	0.0	2322.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	17356.5	0.0	17356.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	19679.0	0.0	19679.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.0	0.8
10°-20°	449.9	2.3
20°-30°	823.6	4.2
30°-40°	1673.4	8.5
40°-50°	3533.8	18.0
50°-60°	5432.6	27.6
60°-70°	5468.3	27.8
70°-80°	2043.3	10.4
80°-90°	102.1	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°	19679.0	100.0
0°-180°	19679.0	100.0

Coefficient of Utilization



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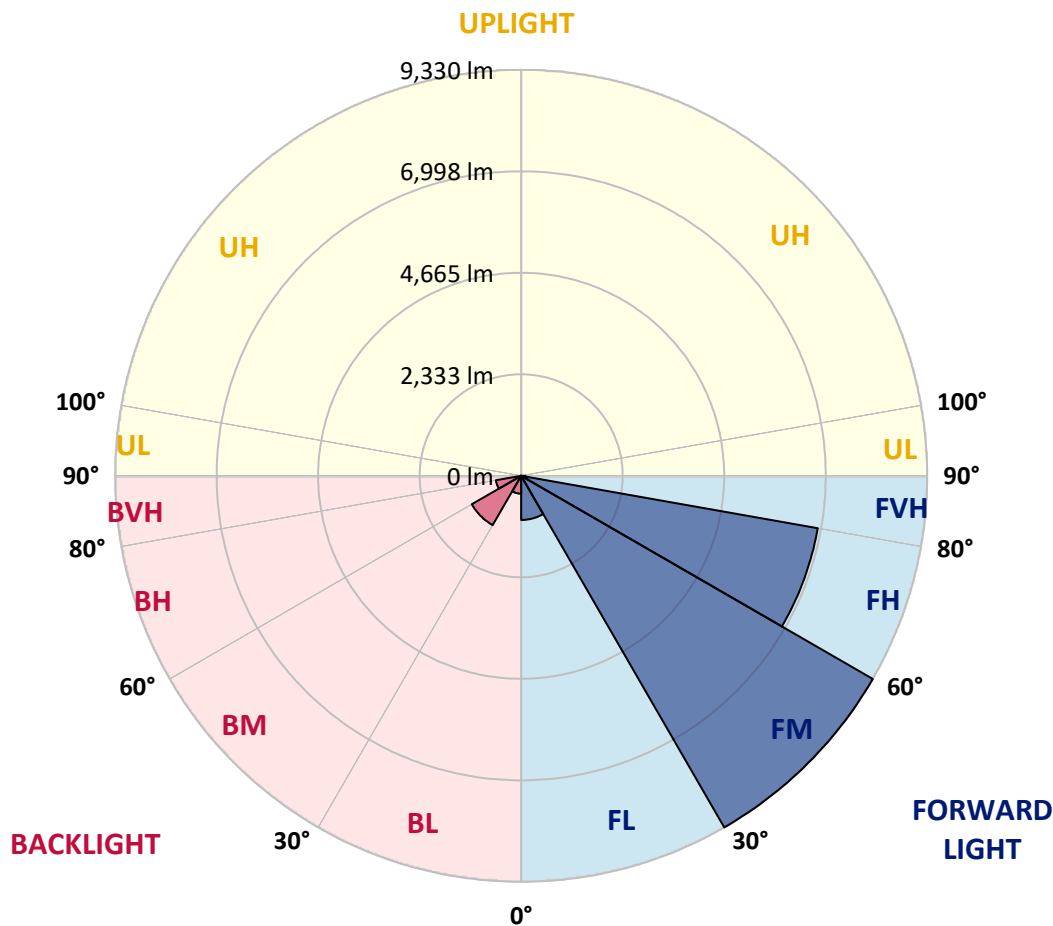
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1014.4	5.2			
FM	(30°-60°)	9330.4	47.4			
FH	(60°-80°)	6921.6	35.2			G3/7500
FVH	(80°-90°)	90.1	0.5			G1/100
BL	(0°-30°)	411.1	2.1	B1/500		
BM	(30°-60°)	1309.5	6.7	B2/2500		
BH	(60°-80°)	590.0	3.0	B2/1000		G2/1000
BVH	(80°-90°)	12.0	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°	1603.3	1603.3	1603.3	1603.3	1603.3	1603.3	1603.3	1603.3	1603.3	1603.3	1603.3
2.5°	1828.2	1831.8	1824.7	1810.4	1796.1	1778.3	1749.7	1703.3	1696.1	1664.0	1628.3
5°	1953.2	1960.4	1949.7	1946.1	1938.9	1913.9	1874.7	1806.8	1799.7	1735.4	1653.3
7.5°	1996.1	2006.8	1999.6	1999.6	1999.6	1988.9	1971.1	1910.4	1899.7	1817.5	1692.6
10°	2028.2	2035.4	2031.8	2046.1	2056.8	2049.6	2038.9	2003.2	1992.5	1910.4	1746.1
12.5°	2078.2	2081.8	2085.3	2092.5	2110.3	2117.5	2113.9	2081.8	2074.6	2017.5	1814.0
15°	2124.6	2124.6	2128.2	2160.3	2185.3	2199.6	2203.2	2178.2	2171.0	2124.6	1899.7
17.5°	2167.5	2171.0	2181.8	2217.5	2260.3	2288.9	2306.7	2296.0	2285.3	2249.6	1999.6
20°	2231.7	2238.9	2249.6	2299.6	2342.4	2388.9	2424.6	2421.0	2417.4	2392.4	2117.5
22.5°	2342.4	2349.6	2367.4	2413.9	2456.7	2513.8	2574.5	2571.0	2560.3	2542.4	2256.7
25°	2510.3	2510.3	2521.0	2560.3	2613.8	2681.7	2738.8	2749.5	2738.8	2728.1	2431.7
27.5°	2720.9	2724.5	2724.5	2767.4	2817.4	2903.1	2974.5	2985.2	2985.2	2974.5	2667.4
30°	3013.7	3003.0	2995.9	3031.6	3085.2	3210.1	3335.1	3356.5	3345.8	3363.7	2999.5
32.5°	3517.2	3499.4	3438.7	3445.8	3477.9	3649.3	3860.0	3935.0	3931.4	3963.6	3535.1
35°	4213.5	4177.8	4088.6	4013.6	4010.0	4195.7	4517.0	4799.1	4795.6	4906.3	4349.2
37.5°	4999.1	5045.5	4877.7	4749.2	4709.9	4856.3	5270.5	5881.1	5913.2	6106.1	5416.9
40°	6048.9	6077.5	5863.2	5681.1	5495.4	5549.0	6095.3	7045.2	7102.3	7316.5	6484.6
42.5°	6963.0	6991.6	6866.6	6645.2	6409.6	6309.6	6927.3	8102.1	8148.5	8444.9	7584.4
45°	7584.4	7605.8	7648.6	7670.1	7402.2	7195.1	7945.0	9187.6	9244.8	9587.6	8659.2
47.5°	8070.0	8087.8	8173.5	8387.8	8334.2	8170.0	8980.5	10316.0	10330.3	10712.4	9705.4
50°	8294.9	8337.8	8548.5	8877.0	9112.7	9159.1	10105.3	11383.7	11423.0	11787.2	10694.5
52.5°	8045.0	8059.3	8591.3	9209.1	9684.0	10155.3	11233.7	12372.8	12487.1	12758.4	11583.6
55°	7202.3	7305.8	8112.8	9198.4	10133.9	11101.6	12440.6	13440.5	13544.0	13715.4	12365.6
57.5°	6223.9	6338.2	7320.1	8737.7	10326.7	11976.4	13558.3	14576.0	14647.4	14693.8	13083.4
60°	5377.6	5484.7	6495.3	7855.7	10133.9	12594.2	14597.4	15704.3	15765.0	15640.1	13444.0
62.5°	4338.5	4445.6	5463.3	6688.1	9376.9	12719.2	15368.7	16707.7	16732.7	16393.5	13222.6
65°	3270.8	3342.3	4192.1	5241.9	8052.1	12055.0	15543.6	17332.6	17307.6	16611.3	12558.5
66°	2931.6	2992.3	3742.2	4634.9	7363.0	11448.0	15308.0	17382.6	17357.6	16450.6	12122.8
67.5°	2528.1	2546.0	3163.7	3792.2	6159.6	10158.9	14590.2	17154.1	17175.5	16007.9	11326.5
70°	1974.6	1971.1	2328.2	2638.8	4206.4	7227.3	12169.3	15715.0	15818.6	14336.7	9659.0
72.5°	1264.1	1221.2	1428.3	1614.0	2449.6	4195.7	8873.4	12808.4	12983.4	11262.3	7195.1
75°	753.4	710.6	760.6	807.0	1174.8	2017.5	5216.9	8716.3	8884.1	7220.1	4281.4
77.5°	564.2	546.3	549.9	510.6	521.3	757.0	2381.7	4606.3	4727.7	2956.6	1624.7
80°	432.1	385.6	360.6	378.5	342.8	299.9	885.6	1585.4	1660.4	699.9	339.2
82.5°	289.2	250.0	232.1	253.5	217.8	167.8	214.2	307.1	299.9	189.3	132.1
85°	150.0	128.5	128.5	128.5	110.7	82.1	92.8	125.0	125.0	100.0	78.6
87.5°	42.8	39.3	46.4	42.8	32.1	32.1	35.7	42.8	42.8	39.3	35.7
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°	1603.3	1603.3	1603.3	1603.3	1603.3	1603.3	1603.3	1603.3	1603.3	1603.3	1603.3
2.5°	1599.7	1585.4	1546.2	1517.6	1489.0	1464.0	1435.5	1428.3	1414.0	1417.6	1410.5
5°	1610.4	1571.1	1503.3	1439.0	1389.0	1346.2	1292.6	1271.2	1242.6	1231.9	1224.8
7.5°	1624.7	1567.6	1467.6	1378.3	1292.6	1206.9	1121.2	1071.2	1039.1	1024.8	1014.1
10°	1656.8	1581.9	1449.7	1310.5	1164.1	1042.7	957.0	921.3	899.8	896.3	892.7
12.5°	1699.7	1603.3	1431.9	1224.8	1032.0	917.7	864.1	853.4	849.8	849.8	846.3
15°	1764.0	1639.0	1403.3	1124.8	928.4	849.8	824.9	807.0	799.9	799.9	799.9
17.5°	1828.2	1681.8	1360.5	1021.2	857.0	807.0	782.0	771.3	764.1	767.7	764.1
20°	1910.4	1731.8	1303.3	932.0	810.6	771.3	746.3	735.6	732.0	732.0	732.0
22.5°	2003.2	1789.0	1231.9	864.1	771.3	735.6	710.6	699.9	692.7	696.3	696.3
25°	2128.2	1860.4	1156.9	796.3	732.0	699.9	671.3	657.0	657.0	660.6	664.2
27.5°	2288.9	1946.1	1081.9	753.4	696.3	664.2	632.0	617.7	621.3	628.5	628.5
30°	2524.5	2063.9	1007.0	707.0	657.0	621.3	592.8	578.5	585.6	599.9	599.9
32.5°	2860.2	2256.7	942.7	653.5	599.9	560.6	532.0	521.3	539.2	567.8	567.8
35°	3460.1	2610.2	903.4	599.9	539.2	492.8	457.1	446.3	471.3	507.1	507.1
37.5°	4263.5	3178.0	917.7	553.5	489.2	435.6	396.4	382.1	399.9	432.1	442.8
40°	5159.8	3863.6	1042.7	514.2	442.8	389.2	349.9	335.7	346.4	360.6	364.2
42.5°	6056.1	4592.0	1278.3	485.6	407.1	349.9	314.2	303.5	310.7	314.2	317.8
45°	6948.8	5313.3	1574.7	467.8	374.9	317.8	282.1	282.1	285.7	285.7	285.7
47.5°	7795.0	6016.8	1885.4	464.2	346.4	285.7	257.1	260.7	260.7	264.2	264.2
50°	8594.9	6645.2	2199.6	474.9	321.4	257.1	235.7	235.7	235.7	239.2	235.7
52.5°	9262.6	7195.1	2528.1	492.8	296.4	235.7	214.2	214.2	214.2	217.8	214.2
55°	9894.7	7695.1	2863.8	517.8	275.0	217.8	196.4	189.3	189.3	192.8	189.3
57.5°	10408.9	8027.1	3181.6	521.3	257.1	200.0	182.1	171.4	171.4	171.4	171.4
60°	10430.3	7834.3	3274.4	457.1	235.7	182.1	164.3	150.0	153.5	153.5	153.5
62.5°	9748.3	6820.2	2631.7	342.8	210.7	164.3	150.0	135.7	135.7	135.7	135.7
65°	8409.2	5306.2	1542.6	271.4	182.1	146.4	132.1	121.4	121.4	121.4	117.8
66°	7780.8	4652.7	1181.9	246.4	171.4	142.8	128.5	117.8	114.3	110.7	110.7
67.5°	6755.9	3677.9	739.2	217.8	157.1	132.1	117.8	107.1	103.6	100.0	100.0
70°	5088.4	2335.3	360.6	167.8	135.7	114.3	103.6	92.8	89.3	85.7	82.1
72.5°	3570.8	1367.6	189.3	128.5	110.7	100.0	89.3	78.6	75.0	71.4	71.4
75°	2017.5	660.6	125.0	92.8	89.3	82.1	75.0	64.3	60.7	60.7	60.7
77.5°	764.1	228.5	85.7	67.8	71.4	64.3	53.6	53.6	50.0	53.6	50.0
80°	200.0	100.0	53.6	50.0	53.6	46.4	39.3	42.8	42.8	42.8	42.8
82.5°	107.1	57.1	32.1	35.7	32.1	32.1	25.0	28.6	32.1	28.6	32.1
85°	75.0	28.6	17.9	17.9	14.3	14.3	10.7	14.3	17.9	14.3	14.3
87.5°	39.3	10.7	10.7	10.7	10.7	7.1	3.6	0.0	3.6	3.6	3.6
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)