

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: P639327

Luminaire Tested: **USSL-M-PA6C-730-U-T4W-HSS**

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-08
Report Number: P639327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-M-PA6C-730-U-T4W-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K LIGHT ENGINES AND TYPE IV OPTICS WITH HOUSE SIDE
SHIELD, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40664 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 457.2
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

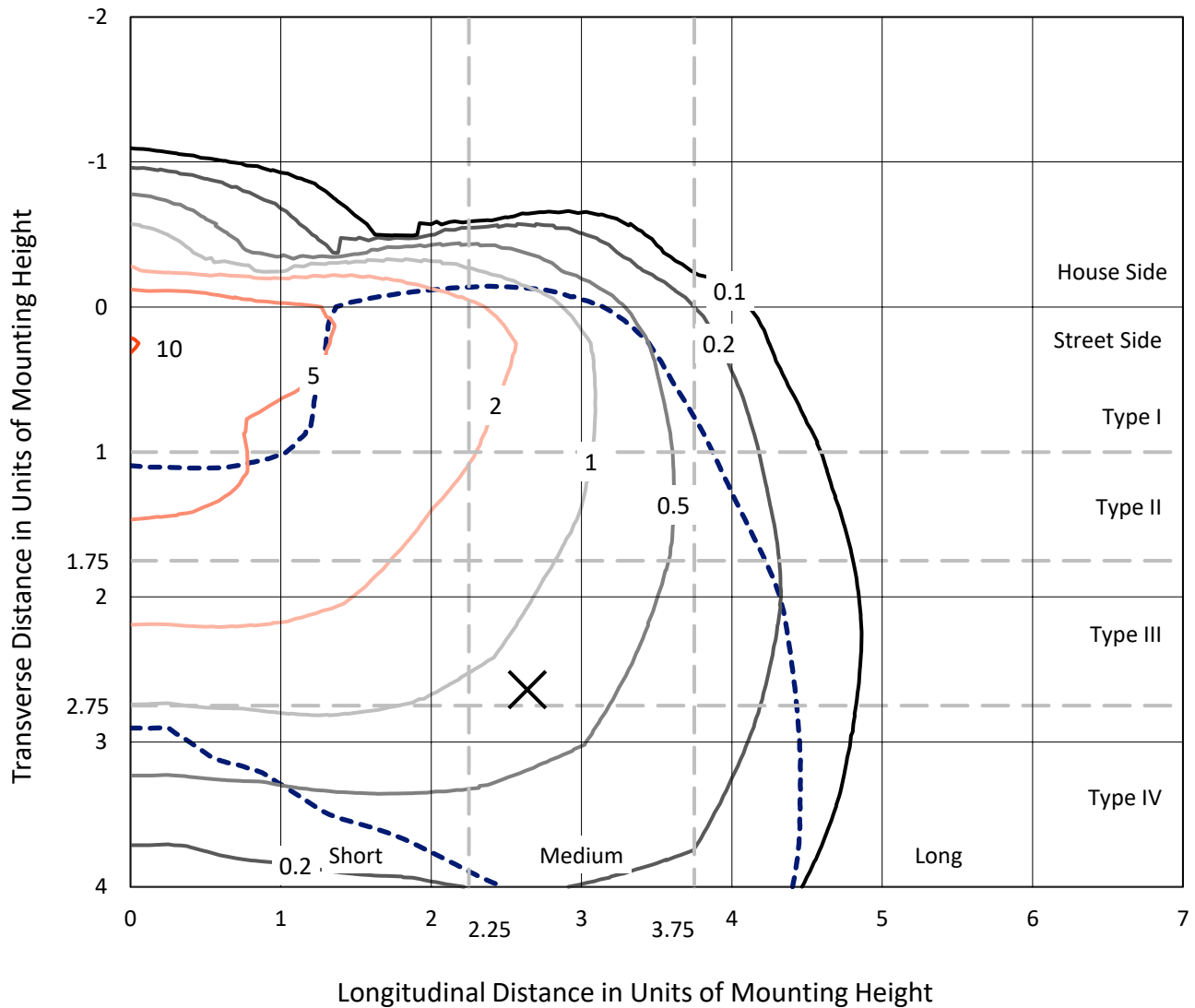


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

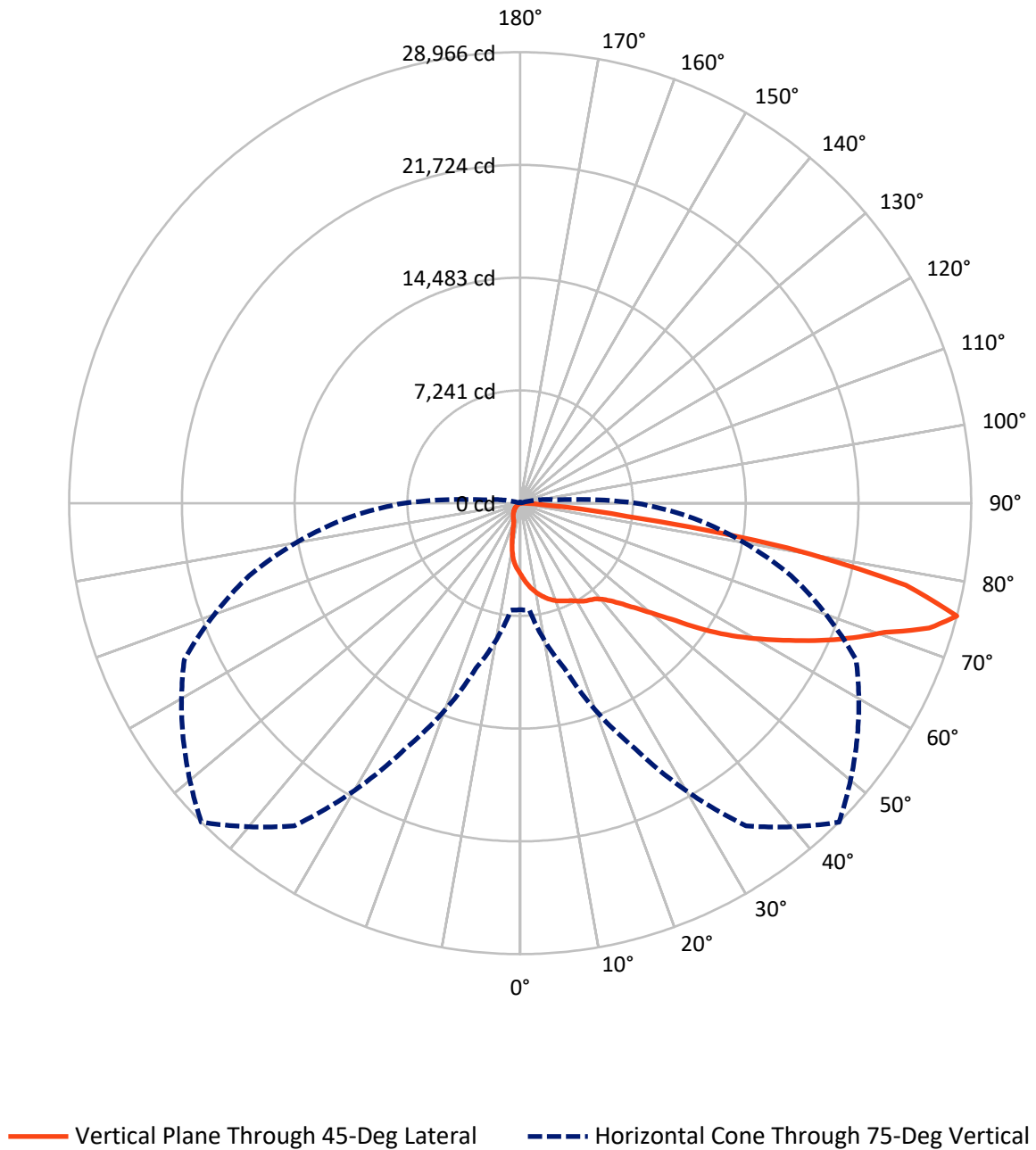


Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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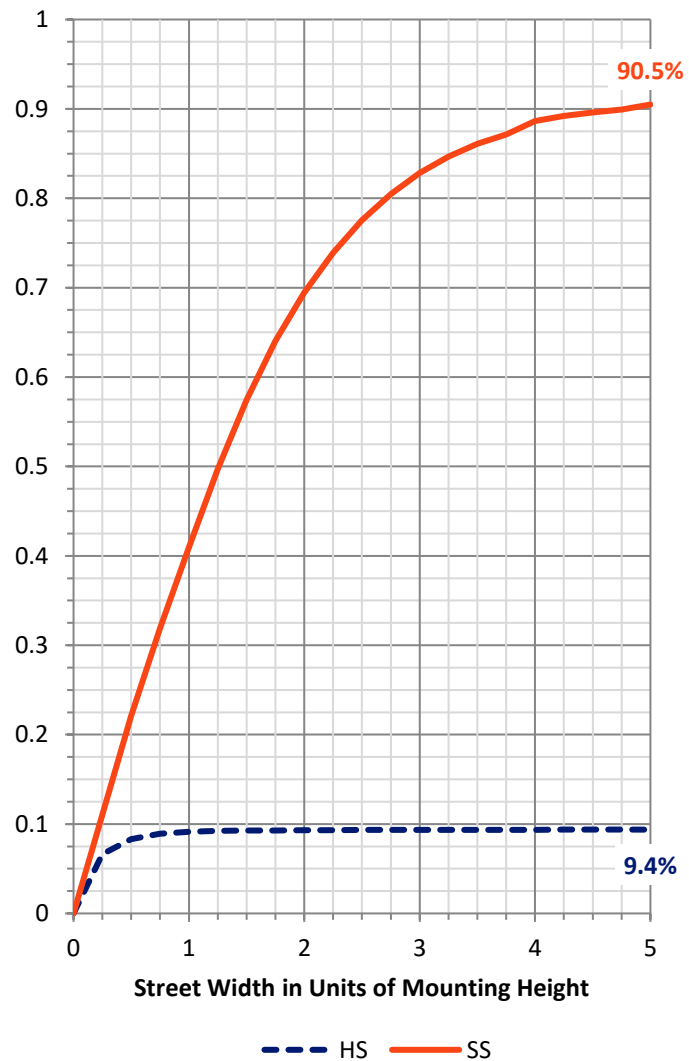
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3842.8	0.0	3842.8
	% Fixture	9.5	0.0	9.5
Street Side	Lumens	36821.2	0.0	36821.2
	% Fixture	90.5	0.0	90.5
Total	Lumens	40664.0	0.0	40664.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.5	1.1
10°-20°	1257.8	3.1
20°-30°	2049.6	5.0
30°-40°	2892.5	7.1
40°-50°	4621.4	11.4
50°-60°	7836.7	19.3
60°-70°	11360.1	27.9
70°-80°	9246.9	22.7
80°-90°	961.6	2.4
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°	40664.0	100.0
0°-180°	40664.0	100.0

Coefficient of Utilization



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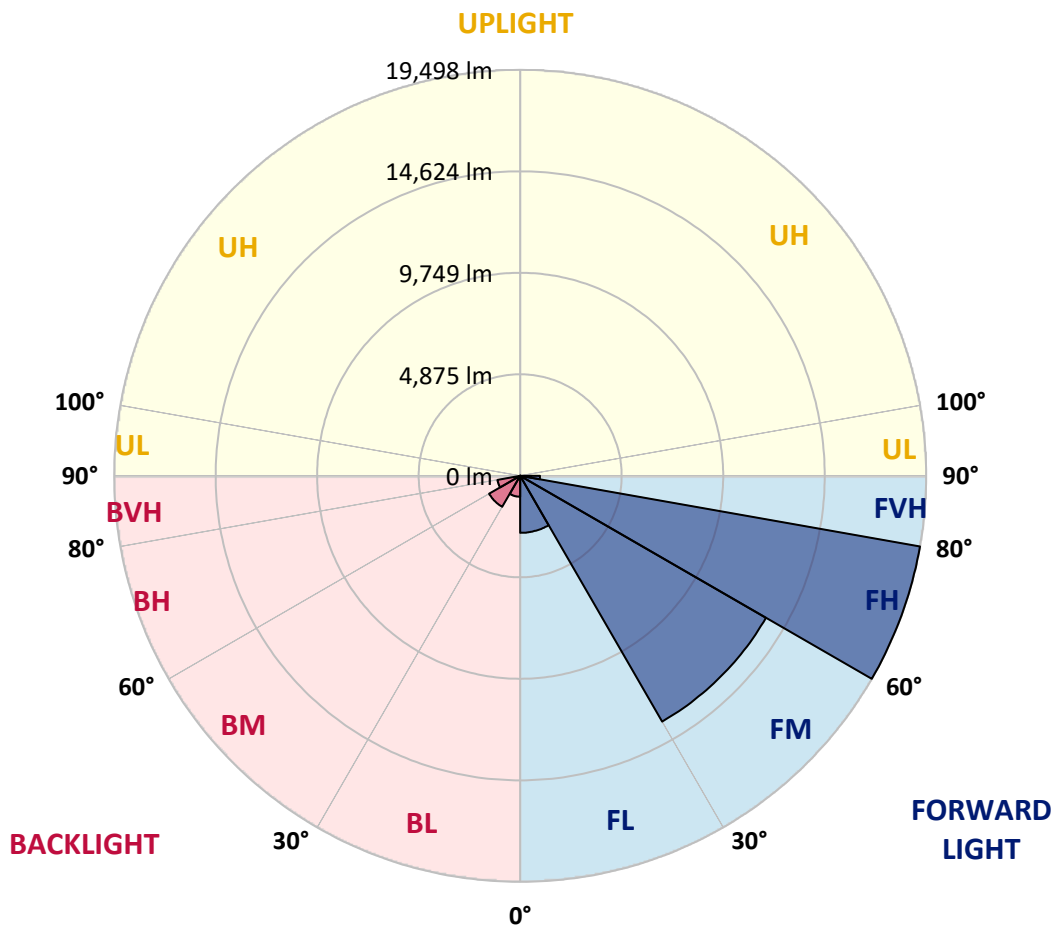
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2740.3	6.7			
FM	(30°-60°)	13630.8	33.5			
FH	(60°-80°)	19498.4	47.9			G5
FVH	(80°-90°)	951.7	2.3			G5
BL	(0°-30°)	1004.5	2.5	B3/2500		
BM	(30°-60°)	1719.8	4.2	B2/2500		
BH	(60°-80°)	1108.6	2.7	B3/2500		G3/2500
BVH	(80°-90°)	9.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4578.0	4578.0	4578.0	4578.0	4578.0	4578.0	4578.0	4578.0	4578.0	4578.0	4578.0
2.5°	5090.3	5093.0	5072.7	5026.6	4973.7	4930.4	4851.8	4774.5	4691.9	4611.9	4576.7
5°	5602.6	5593.1	5553.8	5469.8	5368.1	5270.5	5110.6	4962.9	4793.5	4629.5	4555.0
7.5°	6078.3	6053.9	5991.5	5870.9	5739.5	5578.2	5372.2	5156.7	4922.2	4709.5	4599.7
10°	6491.6	6469.9	6379.1	6221.9	6044.4	5854.6	5625.6	5397.9	5145.9	4870.7	4733.9
12.5°	6850.8	6810.1	6700.3	6501.1	6291.0	6102.7	5869.6	5662.2	5365.4	5071.3	4901.9
15°	7157.0	7112.3	6986.3	6741.0	6495.7	6330.3	6120.3	5914.3	5631.0	5280.0	5084.9
17.5°	7367.1	7325.1	7188.2	6913.1	6663.7	6524.1	6366.9	6163.6	5879.0	5498.2	5280.0
20°	7436.2	7390.1	7276.3	6995.8	6772.1	6697.6	6563.4	6391.3	6113.5	5721.8	5487.4
22.5°	7369.8	7325.1	7246.5	6989.0	6833.1	6827.7	6738.3	6600.0	6334.4	5940.0	5686.6
25°	7276.3	7234.3	7169.2	6949.7	6872.4	6945.6	6902.3	6787.1	6567.5	6173.1	5925.1
27.5°	7239.7	7193.6	7135.4	6955.1	6951.0	7093.3	7094.7	7010.7	6804.7	6415.7	6156.9
30°	7300.7	7249.2	7184.1	7031.0	7081.1	7298.0	7360.3	7265.5	7026.9	6640.7	6394.0
32.5°	7453.8	7361.7	7281.7	7143.5	7226.2	7508.0	7605.6	7456.5	7203.1	6871.1	6654.2
35°	7716.8	7574.5	7441.6	7291.2	7356.3	7642.2	7785.9	7672.0	7417.2	7150.3	6970.0
37.5°	8281.9	8103.0	7884.8	7585.3	7544.6	7804.8	8027.1	8012.2	7750.6	7517.5	7377.9
40°	9386.4	9161.4	8845.7	8199.2	7869.9	8101.6	8406.6	8483.8	8220.9	8019.0	7920.0
42.5°	11198.4	10970.7	10402.8	9181.8	8383.5	8580.0	8922.9	9127.6	8857.9	8726.4	8638.3
45°	13099.8	12924.9	12343.6	10637.3	9236.0	9256.3	9620.9	10001.7	9832.3	9685.9	9562.6
47.5°	14541.8	14372.3	13954.9	12399.1	10546.5	10096.6	10480.1	11057.4	10978.8	10852.8	10721.3
50°	15570.4	15388.8	15121.8	14059.3	12244.6	11153.6	11495.2	12281.2	12476.4	12401.8	12156.5
52.5°	16534.0	16351.0	16122.0	15505.3	14159.6	12525.2	12702.7	13772.0	14108.1	14146.0	13610.7
55°	17333.6	17189.9	17286.1	16894.5	16149.1	14361.5	14112.1	15319.7	15842.8	16115.2	15272.2
57.5°	17836.3	17679.1	18205.0	18421.8	18161.6	16065.0	15620.5	17020.5	17561.2	18241.6	16822.6
60°	18335.1	18154.8	18881.2	19779.8	20058.9	17714.4	17286.1	18733.5	19291.9	20682.4	18386.6
62.5°	18622.4	18424.5	19426.0	20813.8	21585.0	19400.3	19064.2	20473.7	21070.0	23232.9	19713.4
65°	17633.1	17585.6	19588.7	21492.8	22842.6	21254.3	20964.2	22209.7	22848.0	25566.7	20781.3
67.5°	16412.0	16402.5	19079.1	21918.3	23872.6	23055.4	22772.1	23989.2	24505.5	26953.1	20968.3
70°	15517.5	15520.2	18163.0	22480.8	25054.4	24848.4	24548.9	25654.7	25546.3	25938.0	19281.0
72.5°	12855.8	12984.6	15800.8	21648.6	26485.5	27457.2	26154.8	26416.4	23949.8	20091.5	14202.9
75°	6844.0	6899.5	10974.8	17344.4	25299.7	28965.6	26413.7	23807.5	18019.3	11191.6	7462.0
77.5°	2303.9	2255.1	3823.1	9359.3	19300.0	25325.4	21650.0	16745.4	9641.2	3690.3	2411.0
80°	727.8	752.2	1237.3	2976.1	10186.0	17376.9	13032.0	8294.1	2884.0	825.3	475.7
82.5°	328.0	355.1	569.2	1306.5	4002.0	6902.3	6305.9	2863.6	989.3	264.3	177.5
85°	123.3	131.5	279.2	744.0	1624.9	1894.6	2188.7	1049.0	635.6	104.4	70.5
87.5°	29.8	33.9	115.2	241.2	379.5	257.5	360.5	387.6	356.4	36.6	28.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4578.0	4578.0	4578.0	4578.0	4578.0	4578.0	4578.0	4578.0	4578.0	4578.0
2.5°	4542.8	4468.2	4416.7	4342.2	4274.4	4250.0	4213.4	4202.6	4204.0	4171.4
5°	4488.6	4351.7	4239.2	4113.2	4000.7	3913.9	3821.8	3770.3	3747.2	3735.0
7.5°	4500.8	4300.2	4103.7	3867.9	3615.8	3407.1	3218.7	3110.3	3052.0	3041.2
10°	4601.0	4323.2	3995.3	3548.0	3088.6	2740.3	2472.0	2324.2	2236.2	2224.0
12.5°	4740.6	4363.9	3820.4	3129.3	2486.9	2018.0	1723.9	1627.6	1600.5	1597.8
15°	4895.1	4384.2	3564.3	2630.5	1874.3	1474.5	1340.3	1352.5	1368.8	1370.2
17.5°	5063.2	4366.6	3224.1	2091.1	1428.4	1246.8	1208.9	1244.1	1290.2	1291.5
20°	5243.4	4293.4	2821.6	1608.7	1223.8	1157.4	1154.7	1181.8	1230.6	1236.0
22.5°	5425.0	4156.5	2327.0	1301.0	1123.5	1108.6	1100.5	1118.1	1166.9	1172.3
25°	5610.7	3946.5	1840.4	1123.5	1062.5	1055.7	1043.5	1054.4	1095.0	1101.8
27.5°	5804.5	3702.5	1451.5	1011.0	993.4	990.7	986.6	982.6	1019.1	1027.3
30°	5986.1	3354.2	1153.3	931.1	910.7	913.4	909.4	909.4	939.2	946.0
32.5°	6177.2	2987.0	967.6	859.2	828.1	824.0	828.1	832.1	851.1	857.9
35°	6384.5	2561.4	861.9	792.8	750.8	731.8	733.2	740.0	753.5	760.3
37.5°	6623.1	2154.8	791.5	731.8	680.3	649.2	632.9	632.9	647.8	647.8
40°	6913.1	1725.2	740.0	674.9	615.3	569.2	538.0	515.0	508.2	519.1
42.5°	7264.1	1372.9	696.6	630.2	554.3	497.4	440.5	393.0	380.8	384.9
45°	7704.6	1074.7	655.9	584.1	492.0	418.8	342.9	280.5	264.3	268.3
47.5°	8233.1	880.9	613.9	534.0	426.9	340.2	241.2	189.7	188.4	192.4
50°	8852.4	752.2	563.8	485.2	364.6	256.1	162.6	132.8	145.0	151.8
52.5°	9538.2	679.0	515.0	437.7	299.5	178.9	115.2	105.7	122.0	127.4
55°	10229.4	628.8	467.6	383.5	233.1	127.4	90.8	89.4	107.1	111.1
57.5°	10818.9	570.6	421.5	322.5	176.2	101.6	80.0	80.0	97.6	101.6
60°	11282.4	493.3	367.3	246.7	135.5	89.4	70.5	70.5	89.4	93.5
62.5°	11634.8	380.8	286.0	183.0	115.2	84.0	63.7	62.3	81.3	86.7
65°	11720.1	264.3	208.7	139.6	104.4	80.0	56.9	54.2	73.2	77.2
67.5°	11331.2	187.0	155.9	112.5	97.6	77.2	51.5	46.1	63.7	67.8
70°	9843.1	145.0	120.6	92.2	93.5	75.9	47.4	39.3	51.5	54.2
72.5°	6640.7	119.3	97.6	78.6	88.1	71.8	42.0	31.2	40.7	42.0
75°	2358.1	96.2	77.2	63.7	75.9	63.7	35.2	24.4	29.8	31.2
77.5°	424.2	70.5	55.6	46.1	58.3	50.1	28.5	17.6	21.7	21.7
80°	107.1	40.7	32.5	25.7	39.3	35.2	21.7	13.6	14.9	14.9
82.5°	44.7	21.7	21.7	17.6	21.7	21.7	13.6	8.1	9.5	9.5
85°	25.7	17.6	17.6	14.9	14.9	13.6	9.5	5.4	2.7	4.1
87.5°	17.6	16.3	14.9	13.6	12.2	8.1	5.4	2.7	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)