

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: P639260

Luminaire Tested: **USSL-M-PA6B-740-U-T2U-HSS**

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-08
Report Number: P639260
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-M-PA6B-740-U-T2U-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K LIGHT ENGINES AND TYPE II U OPTICS WITH HOUSE SIDE
SHIELD, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36594 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

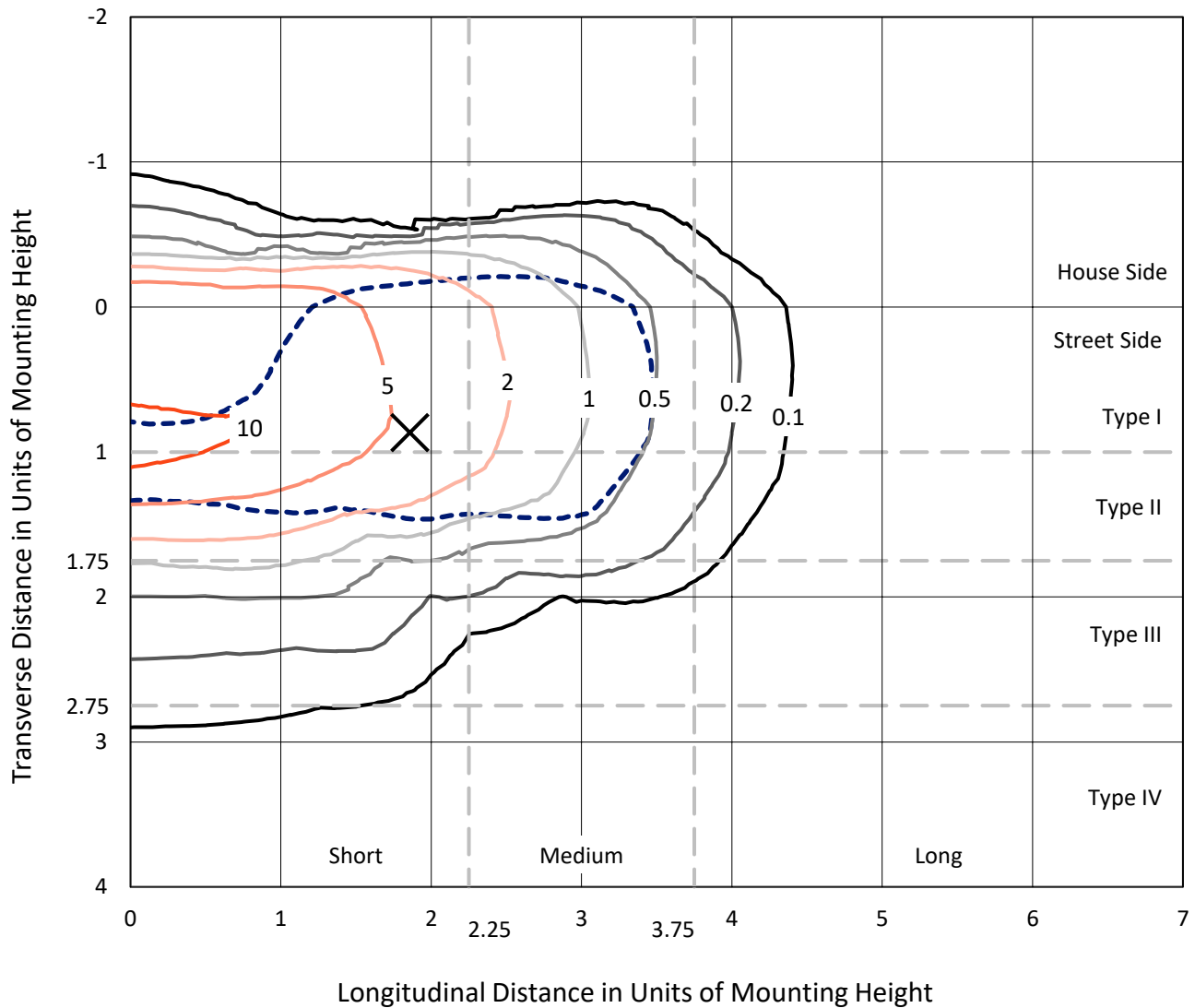
Input Watts (W): 365.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

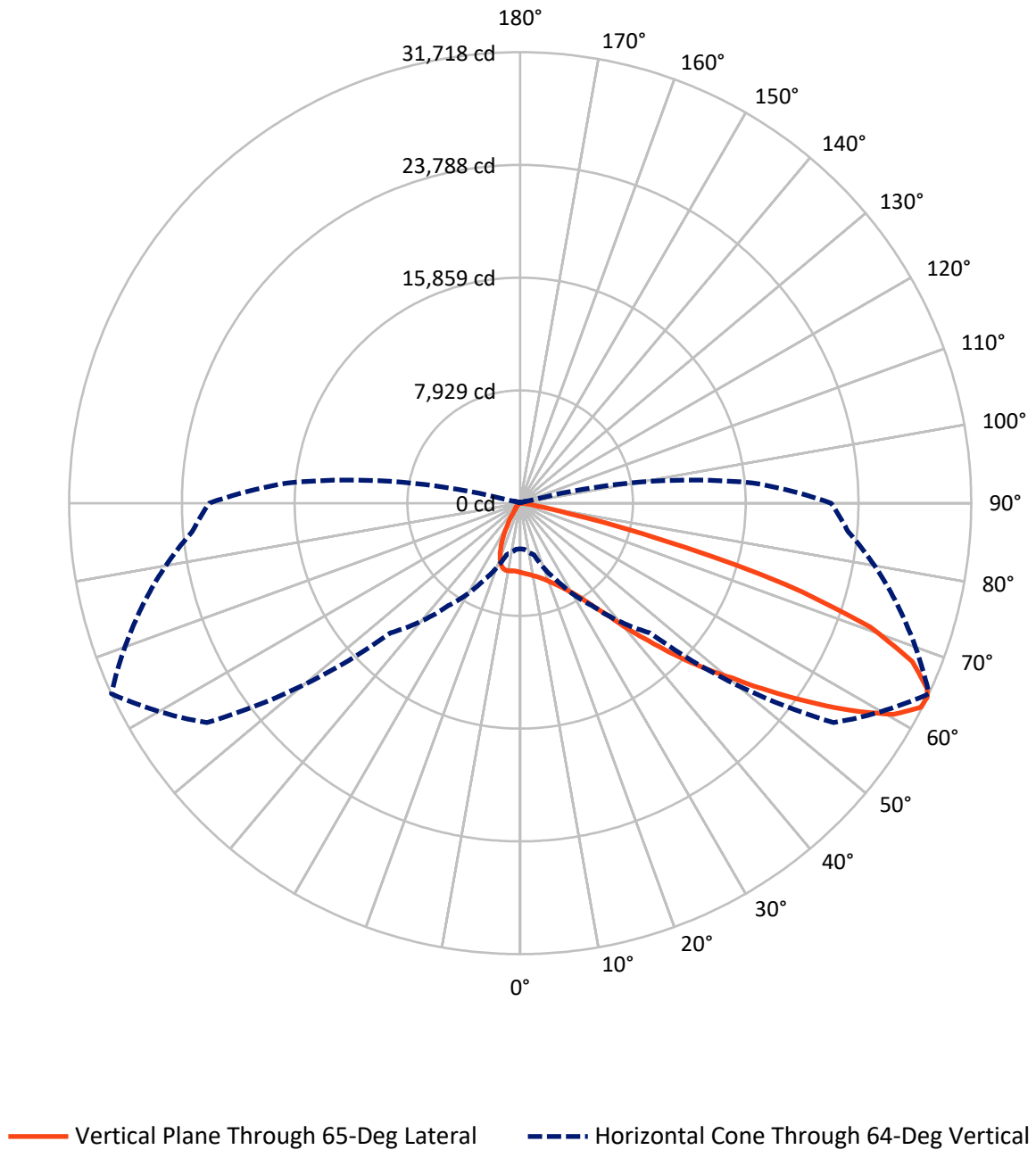
✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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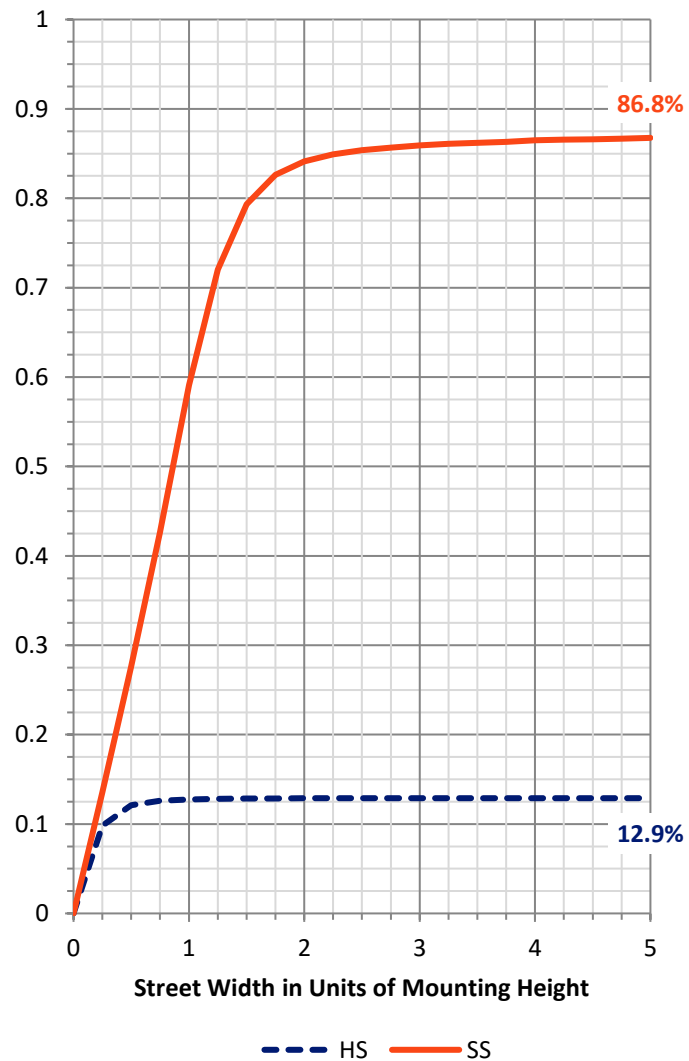
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4771.4	0.0	4771.4
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	31822.6	0.0	31822.6
	% Fixture	87.0	0.0	87.0
Total	Lumens	36594.0	0.0	36594.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.9	1.3
10°-20°	1223.4	3.3
20°-30°	1966.2	5.4
30°-40°	3583.4	9.8
40°-50°	7302.1	20.0
50°-60°	10072.3	27.5
60°-70°	8471.7	23.2
70°-80°	3318.3	9.1
80°-90°	196.8	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°	36594.0	100.0
0°-180°	36594.0	100.0

Coefficient of Utilization



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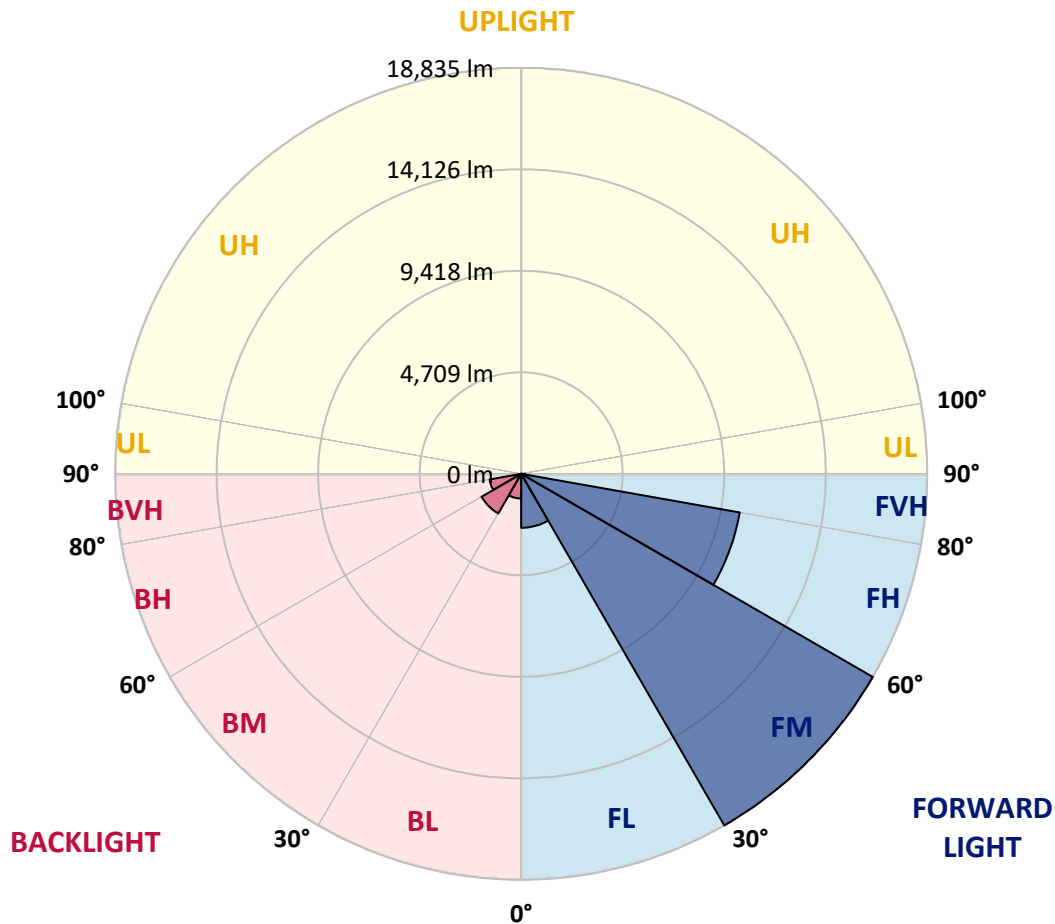
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2502.6	6.8			
FM	(30°-60°)	18835.1	51.5			
FH	(60°-80°)	10297.3	28.1			G4/12000
FVH	(80°-90°)	187.5	0.5			G2/225
BL	(0°-30°)	1146.8	3.1	B3/2500		
BM	(30°-60°)	2122.7	5.8	B2/2500		
BH	(60°-80°)	1492.7	4.1	B3/2500		G3/2500
BVH	(80°-90°)	9.2	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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4870.2	4870.2	4870.2	4870.2	4870.2	4870.2	4870.2	4870.2	4870.2	4870.2	4870.2
2.5°	5064.9	5019.4	5014.3	5008.0	4989.0	4976.4	4954.9	4935.9	4908.1	4882.8	4866.4
5°	5136.9	5086.3	5085.1	5086.3	5069.9	5054.7	5030.7	4999.1	4954.9	4909.4	4880.3
7.5°	5147.0	5100.3	5104.0	5109.1	5106.6	5106.6	5101.5	5081.3	5040.8	4978.9	4943.5
10°	5193.8	5152.1	5149.5	5147.0	5143.2	5154.6	5182.4	5191.3	5153.3	5090.1	5042.1
12.5°	5303.8	5258.3	5255.7	5246.9	5238.0	5246.9	5287.3	5311.3	5287.3	5211.5	5155.9
15°	5452.9	5404.9	5399.8	5391.0	5384.7	5401.1	5434.0	5459.2	5431.4	5346.7	5277.2
17.5°	5623.6	5564.1	5578.0	5570.5	5571.7	5583.1	5622.3	5647.6	5612.2	5511.1	5423.8
20°	5811.9	5750.0	5776.5	5786.6	5782.8	5808.1	5858.7	5881.4	5823.3	5689.3	5583.1
22.5°	6026.8	5963.6	6010.3	6047.0	6012.9	6067.2	6138.0	6151.9	6077.3	5892.8	5756.3
25°	6306.1	6231.5	6285.9	6327.6	6258.1	6344.0	6448.9	6476.8	6390.8	6172.1	5991.4
27.5°	6752.3	6651.2	6657.5	6647.4	6561.4	6658.8	6810.5	6872.4	6771.3	6505.8	6288.4
30°	7752.1	7577.7	7369.1	7088.5	6926.7	7062.0	7265.5	7374.2	7254.1	6891.3	6617.1
32.5°	9545.8	9270.2	8839.2	8025.2	7472.8	7549.9	7831.8	7999.9	7889.9	7461.4	7108.8
35°	12123.1	11718.6	10946.3	9876.9	8538.3	8205.9	8558.6	8931.4	8825.3	8358.9	7916.5
37.5°	15187.0	14662.4	13607.0	12155.9	10214.4	9201.9	9528.1	9984.4	10041.2	9501.5	8973.2
40°	17761.8	17217.0	16322.1	14778.7	12618.5	10854.0	10812.3	11587.1	11520.1	10864.1	10229.6
42.5°	19645.1	19107.9	18521.4	17329.5	15635.7	13565.3	12536.4	13221.5	13135.5	12293.7	11559.3
45°	20736.0	20216.5	19881.5	19399.9	18440.5	17435.7	14869.7	15187.0	14860.9	13790.3	12909.3
47.5°	21043.1	20508.5	20474.3	20744.8	20967.3	21144.2	17827.5	17261.2	16633.0	15206.0	14271.9
50°	20019.3	19693.2	20165.9	21303.5	22881.0	23926.3	21159.4	19344.3	18465.8	16739.2	15644.6
52.5°	17000.8	16954.1	18261.1	20604.5	23933.9	26315.3	24387.7	21943.1	20302.4	18189.0	16995.8
55°	13014.2	13001.5	14716.8	17836.4	23342.4	27097.7	27120.5	24699.9	22049.3	19560.5	18290.1
57.5°	8864.5	9008.6	11324.2	14083.5	20177.3	26386.1	28799.1	27524.9	23822.7	20866.2	19509.9
60°	5540.1	5598.3	7553.7	10727.6	15417.0	22970.7	29275.6	30160.4	25354.6	21945.6	20594.4
62.5°	3851.4	3870.4	4712.2	7682.6	10865.4	16834.0	28381.9	31626.6	26761.5	22791.2	21476.7
64°	3216.9	3251.0	3766.7	5902.9	8791.1	12901.7	26905.6	31717.6	27435.2	23157.8	21871.1
65°	2856.6	2905.9	3296.5	4882.8	7675.0	10309.2	25221.9	31450.9	27801.8	23334.8	22036.6
67.5°	2246.1	2234.8	2429.4	3139.8	5541.4	5631.1	19073.8	29733.2	28153.1	23367.6	22061.9
70°	1964.3	1978.2	2070.4	2268.9	3900.7	3541.7	9878.2	26133.3	26917.0	22466.4	21088.6
72.5°	1534.5	1538.3	1757.0	1964.3	2582.4	2352.3	4245.8	19492.2	22352.6	19422.7	17961.5
75°	1020.1	1068.1	1304.5	1707.7	1767.1	1595.2	1851.8	10194.2	13547.6	12983.8	11553.0
77.5°	685.1	709.1	868.4	1261.5	1577.5	1013.7	1026.4	3412.8	5599.5	5018.1	4376.0
80°	434.8	451.2	571.3	874.7	1221.0	738.2	605.5	1213.4	1573.7	1045.3	850.7
82.5°	295.8	313.5	381.7	630.7	782.4	664.9	361.5	562.5	616.8	273.0	206.0
85°	132.7	183.3	269.2	419.6	509.4	343.8	222.5	280.6	338.8	126.4	70.8
87.5°	25.3	37.9	156.7	226.3	152.9	82.2	108.7	106.2	149.2	50.6	22.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4870.2	4870.2	4870.2	4870.2	4870.2	4870.2	4870.2	4870.2	4870.2	4870.2
2.5°	4853.8	4838.6	4815.9	4791.8	4765.3	4752.7	4746.3	4736.2	4733.7	4684.4
5°	4862.6	4824.7	4781.7	4736.2	4688.2	4660.4	4640.2	4614.9	4603.5	4556.7
7.5°	4917.0	4855.0	4790.6	4713.5	4614.9	4502.4	4353.2	4268.5	4201.5	4163.6
10°	5010.5	4922.0	4823.4	4654.1	4374.7	4025.9	3650.4	3398.9	3267.4	3254.8
12.5°	5110.4	4992.8	4832.3	4437.9	3822.3	3200.5	2632.9	2298.0	2141.2	2134.9
15°	5220.3	5072.4	4756.4	3987.9	3048.8	2257.5	1698.8	1409.4	1267.8	1260.2
17.5°	5353.1	5157.1	4552.9	3352.1	2201.9	1434.6	1069.3	927.8	886.1	881.0
20°	5498.4	5225.4	4199.0	2635.4	1467.5	975.8	821.6	748.3	716.7	711.6
22.5°	5652.6	5251.9	3736.4	1927.6	1011.2	781.2	678.8	609.2	576.4	571.3
25°	5854.9	5235.5	3184.0	1329.7	800.1	651.0	548.6	490.4	458.8	456.3
27.5°	6124.1	5171.0	2555.8	951.8	678.8	538.5	442.4	389.3	369.1	366.6
30°	6408.5	4973.9	1941.5	749.6	572.6	439.9	356.4	317.3	302.1	299.6
32.5°	6792.8	4689.5	1391.7	618.1	475.3	359.0	292.0	261.6	251.5	250.3
35°	7481.6	4435.4	942.9	509.4	388.0	294.5	244.0	222.5	217.4	217.4
37.5°	8414.5	4181.3	686.4	426.0	316.0	245.2	208.6	194.7	193.4	193.4
40°	9493.9	3875.4	547.3	359.0	264.2	209.8	180.8	170.6	173.2	173.2
42.5°	10586.0	3463.4	470.2	304.6	226.3	182.0	158.0	147.9	152.9	154.2
45°	11654.1	2916.1	414.6	261.6	198.4	158.0	136.5	127.7	134.0	134.0
47.5°	12608.4	2357.4	365.3	227.5	174.4	137.8	115.0	106.2	111.2	113.8
50°	13550.1	1808.8	319.8	201.0	156.7	118.8	96.1	88.5	93.5	96.1
52.5°	14381.8	1463.7	279.3	179.5	140.3	101.1	79.6	72.0	78.4	79.6
55°	15104.8	1193.2	241.4	160.5	122.6	84.7	64.5	59.4	65.7	67.0
57.5°	15716.6	987.2	208.6	142.8	107.4	72.0	54.4	50.6	55.6	58.1
60°	16141.3	802.6	177.0	126.4	92.3	60.7	45.5	41.7	45.5	45.5
62.5°	16371.4	651.0	151.7	111.2	79.6	53.1	39.2	31.6	34.1	34.1
64°	16399.2	577.6	137.8	102.4	72.0	49.3	34.1	25.3	26.5	26.5
65°	16371.4	532.1	126.4	96.1	68.3	46.8	31.6	20.2	20.2	21.5
67.5°	16007.3	437.3	103.6	80.9	56.9	39.2	22.8	12.6	12.6	12.6
70°	15015.1	336.2	86.0	65.7	46.8	32.9	17.7	8.8	7.6	7.6
72.5°	12054.8	231.3	68.3	49.3	36.7	26.5	12.6	5.1	2.5	2.5
75°	5641.2	147.9	48.0	32.9	25.3	20.2	8.8	2.5	0.0	0.0
77.5°	1650.8	84.7	30.3	21.5	17.7	13.9	7.6	1.3	0.0	0.0
80°	336.2	34.1	20.2	16.4	13.9	11.4	6.3	1.3	0.0	0.0
82.5°	56.9	17.7	16.4	12.6	11.4	8.8	5.1	0.0	0.0	0.0
85°	21.5	12.6	13.9	11.4	10.1	7.6	3.8	0.0	0.0	0.0
87.5°	12.6	12.6	12.6	11.4	8.8	5.1	2.5	0.0	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)