

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: P639323

Luminaire Tested: **USSL-M-PA6C-730-U-T2U-HSS**

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-08
Report Number: P639323
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-PA6C-730-U-T2U-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K 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: 39235 lumens
Efficiency: N/A
Efficacy: 85.8 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): 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

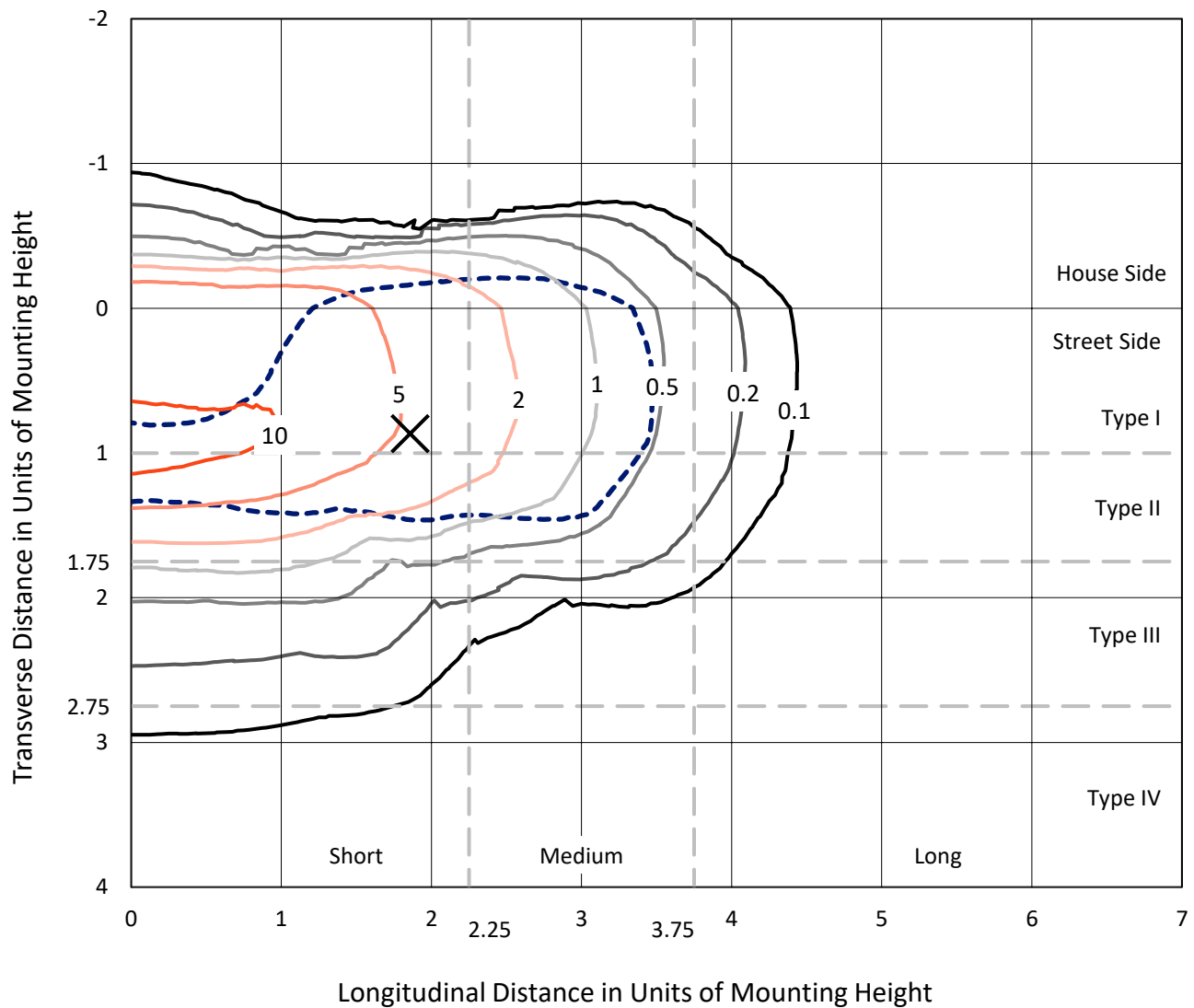


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Iso-Footcandle Lines of Horizontal Illumination

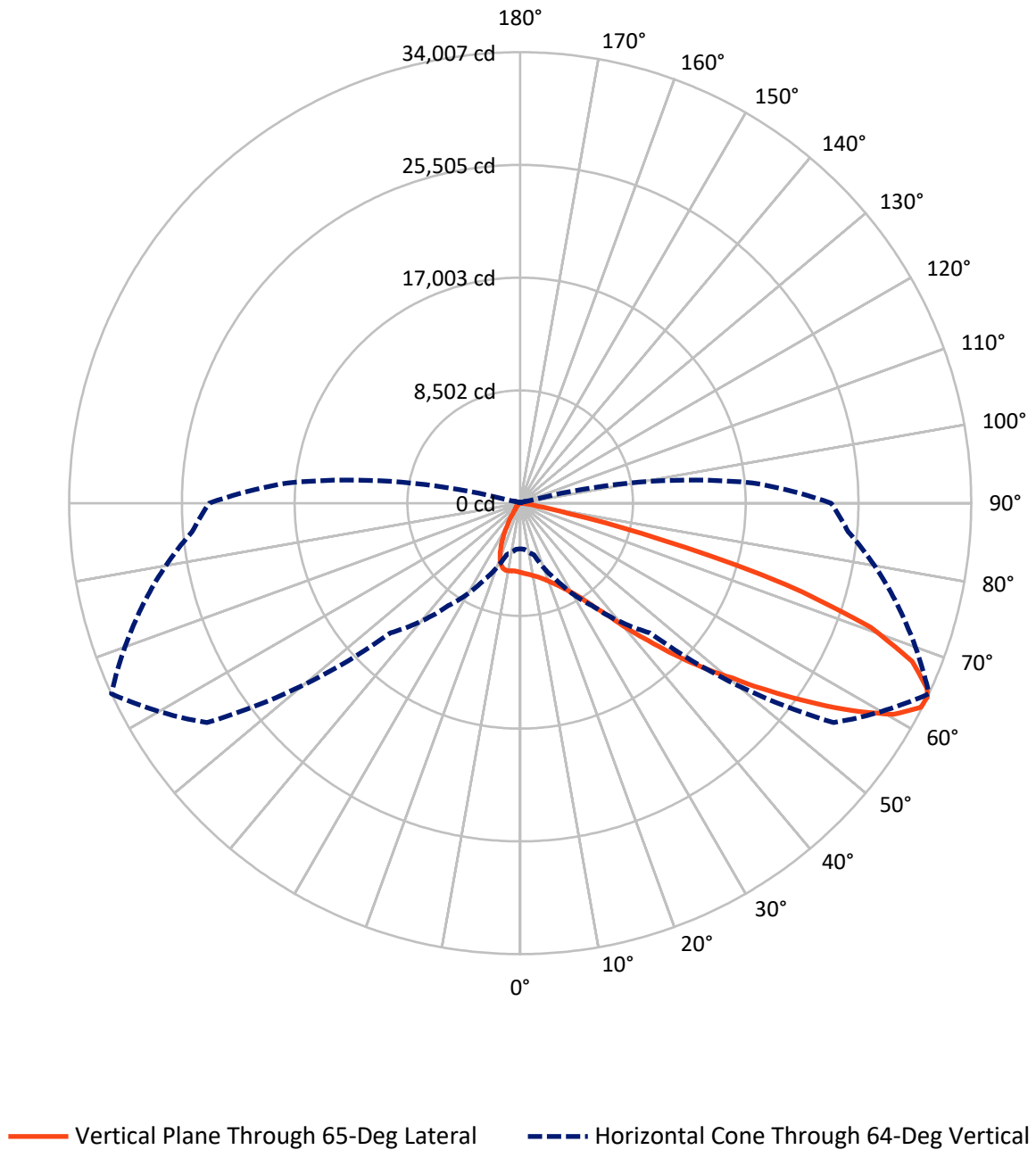
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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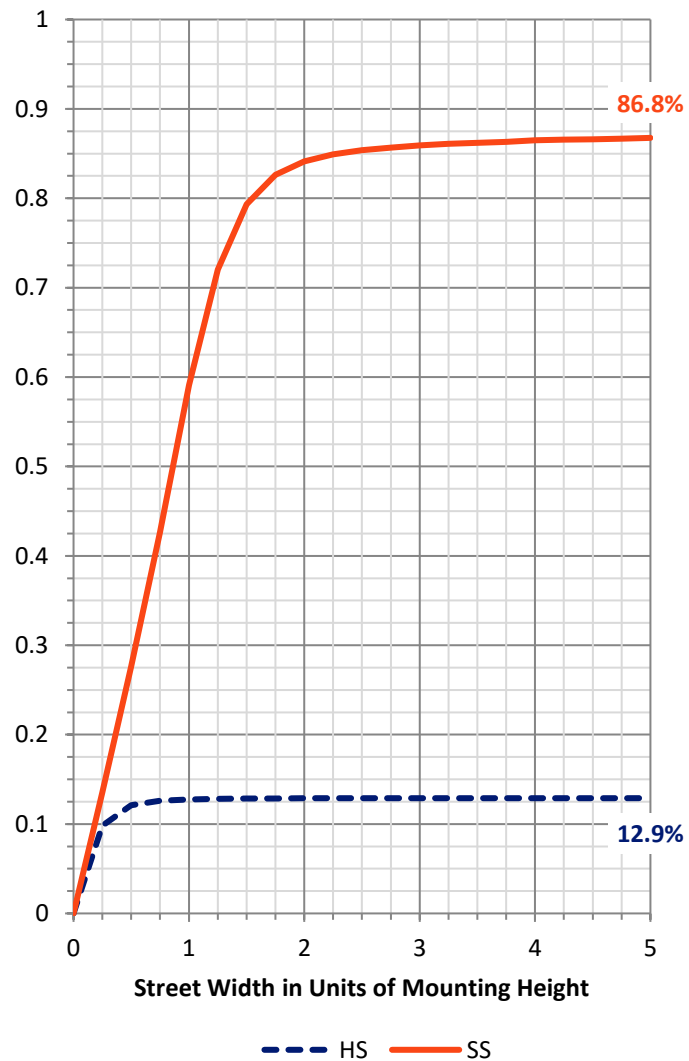
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5115.8	0.0	5115.8
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	34119.2	0.0	34119.2
	% Fixture	87.0	0.0	87.0
Total	Lumens	39235.0	0.0	39235.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.0	1.3
10°-20°	1311.7	3.3
20°-30°	2108.1	5.4
30°-40°	3842.0	9.8
40°-50°	7829.1	20.0
50°-60°	10799.2	27.5
60°-70°	9083.1	23.2
70°-80°	3557.8	9.1
80°-90°	211.0	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°	39235.0	100.0
0°-180°	39235.0	100.0

Coefficient of Utilization



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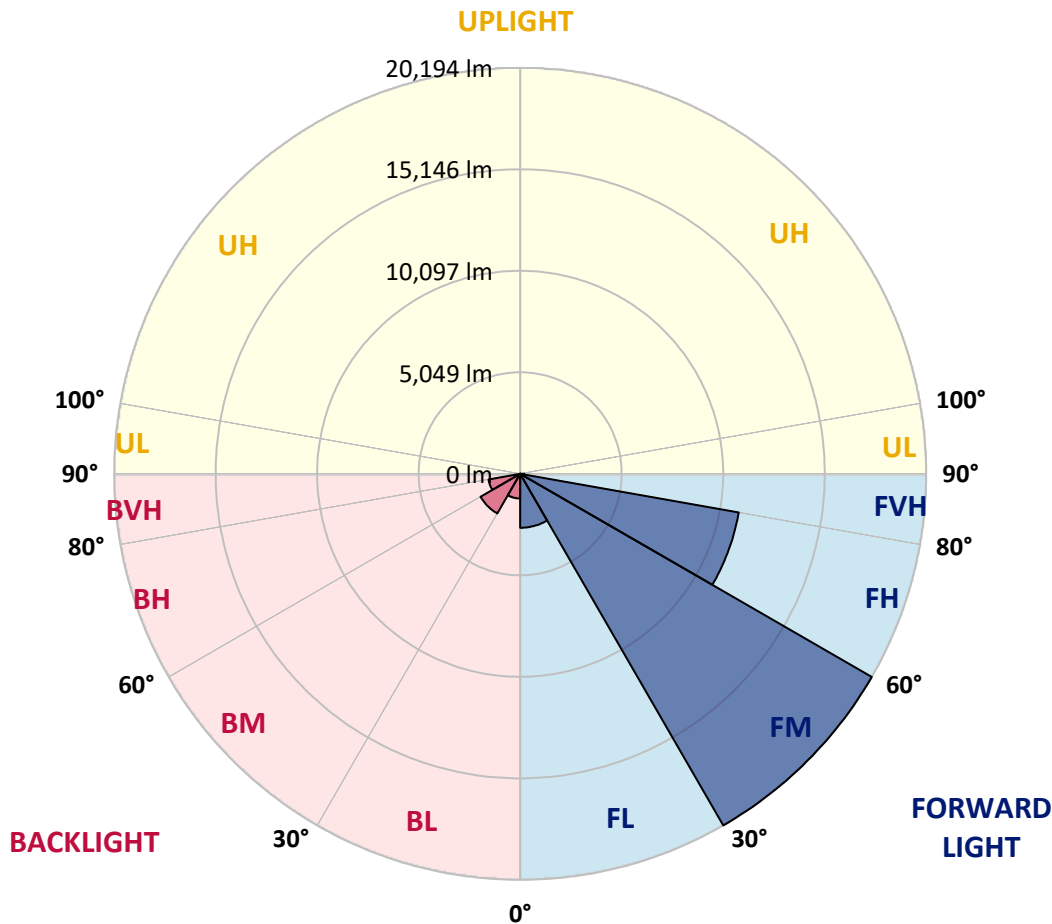
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2683.2	6.8			
FM	(30°-60°)	20194.4	51.5			
FH	(60°-80°)	11040.5	28.1			G4/12000
FVH	(80°-90°)	201.1	0.5			G2/225
BL	(0°-30°)	1229.6	3.1	B3/2500		
BM	(30°-60°)	2275.9	5.8	B2/2500		
BH	(60°-80°)	1600.4	4.1	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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5221.7	5221.7	5221.7	5221.7	5221.7	5221.7	5221.7	5221.7	5221.7	5221.7	5221.7
2.5°	5430.4	5381.6	5376.2	5369.4	5349.1	5335.5	5312.5	5292.2	5262.3	5235.2	5217.6
5°	5507.6	5453.4	5452.1	5453.4	5435.8	5419.6	5393.8	5359.9	5312.5	5263.7	5232.5
7.5°	5518.5	5468.3	5472.4	5477.8	5475.1	5475.1	5469.7	5448.0	5404.6	5338.2	5300.3
10°	5568.6	5523.9	5521.2	5518.5	5514.4	5526.6	5556.4	5565.9	5525.3	5457.5	5406.0
12.5°	5686.5	5637.7	5635.0	5625.5	5616.1	5625.5	5668.9	5694.7	5668.9	5587.6	5528.0
15°	5846.4	5795.0	5789.5	5780.0	5773.3	5790.9	5826.1	5853.2	5823.4	5732.6	5658.1
17.5°	6029.4	5965.7	5980.6	5972.5	5973.8	5986.0	6028.0	6055.2	6017.2	5908.8	5815.3
20°	6231.3	6164.9	6193.4	6204.2	6200.2	6227.3	6281.5	6305.9	6243.5	6099.9	5986.0
22.5°	6461.7	6394.0	6444.1	6483.4	6446.8	6505.1	6581.0	6595.9	6515.9	6318.1	6171.7
25°	6761.2	6681.3	6739.5	6784.3	6709.7	6801.9	6914.4	6944.2	6852.0	6617.6	6423.8
27.5°	7239.6	7131.2	7138.0	7127.1	7035.0	7139.3	7302.0	7368.4	7260.0	6975.4	6742.3
30°	8311.6	8124.6	7901.0	7600.1	7426.6	7571.7	7789.8	7906.4	7777.6	7388.7	7094.6
32.5°	10234.7	9939.2	9477.1	8604.3	8012.1	8094.8	8397.0	8577.2	8459.3	7999.9	7621.8
35°	12998.0	12564.3	11736.3	10589.7	9154.6	8798.1	9176.2	9576.0	9462.2	8962.1	8487.8
37.5°	16283.1	15720.6	14589.0	13033.2	10951.6	9866.1	10215.7	10704.9	10765.9	10187.2	9620.8
40°	19043.6	18459.5	17500.0	15845.3	13529.2	11637.3	11592.6	12423.4	12351.5	11648.2	10967.9
42.5°	21062.9	20487.0	19858.1	18580.2	16764.2	14544.3	13441.1	14175.7	14083.5	13180.9	12393.6
45°	22232.5	21675.5	21316.4	20800.0	19771.4	18694.0	15942.9	16283.1	15933.4	14785.5	13840.9
47.5°	22561.8	21988.6	21952.0	22242.0	22480.5	22670.2	19114.1	18507.0	17833.4	16303.4	15301.9
50°	21464.1	21114.4	21621.3	22841.0	24532.3	25653.1	22686.5	20740.4	19798.5	17947.3	16773.6
52.5°	18227.8	18177.7	19579.0	22091.6	25661.2	28214.5	26147.7	23526.7	21767.7	19501.7	18222.4
55°	13953.4	13939.9	15778.9	19123.6	25027.0	29053.4	29077.7	26482.5	23640.6	20972.1	19610.1
57.5°	9504.2	9658.7	12141.5	15099.9	21633.5	28290.4	30877.5	29511.4	25542.0	22372.1	20917.9
60°	5940.0	6002.3	8098.8	11501.8	16529.7	24628.5	31388.4	32337.1	27184.5	23529.5	22080.7
62.5°	4129.4	4149.7	5052.3	8237.1	11649.5	18048.9	30430.3	33909.1	28692.9	24436.1	23026.7
64°	3449.1	3485.6	4038.6	6328.9	9425.6	13832.8	28847.4	34006.7	29415.2	24829.1	23449.5
65°	3062.8	3115.7	3534.4	5235.2	8228.9	11053.2	27042.2	33720.8	29808.2	25018.8	23627.0
67.5°	2408.2	2396.0	2604.7	3366.4	5941.3	6037.5	20450.4	31879.0	30185.0	25054.1	23654.1
70°	2106.0	2120.9	2219.9	2432.6	4182.2	3797.3	10591.1	28019.3	28859.6	24087.8	22610.6
72.5°	1645.2	1649.3	1883.8	2106.0	2768.7	2522.1	4552.2	20899.0	23965.8	20824.4	19257.8
75°	1093.7	1145.2	1398.6	1830.9	1894.6	1710.3	1985.4	10929.9	14525.3	13920.9	12386.8
77.5°	734.5	760.3	931.0	1352.5	1691.3	1086.9	1100.4	3659.1	6003.7	5380.3	4691.8
80°	466.2	483.8	612.6	937.8	1309.1	791.5	649.2	1301.0	1687.3	1120.8	912.1
82.5°	317.1	336.1	409.3	676.3	838.9	712.8	387.6	603.1	661.4	292.7	220.9
85°	142.3	196.5	288.7	449.9	546.2	368.6	238.5	300.9	363.2	135.5	75.9
87.5°	27.1	40.7	168.0	242.6	164.0	88.1	116.5	113.8	159.9	54.2	24.4
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°	5221.7	5221.7	5221.7	5221.7	5221.7	5221.7	5221.7	5221.7	5221.7	5221.7
2.5°	5204.1	5187.8	5163.4	5137.7	5109.2	5095.7	5088.9	5078.0	5075.3	5022.5
5°	5213.6	5172.9	5126.8	5078.0	5026.5	4996.7	4975.0	4947.9	4935.7	4885.6
7.5°	5271.8	5205.4	5136.3	5053.6	4947.9	4827.3	4667.4	4576.6	4504.8	4464.1
10°	5372.1	5277.3	5171.5	4989.9	4690.4	4316.4	3913.9	3644.2	3503.3	3489.7
12.5°	5479.2	5353.1	5181.0	4758.2	4098.2	3431.4	2822.9	2463.8	2295.8	2289.0
15°	5597.1	5438.5	5099.7	4275.7	3268.8	2420.4	1821.4	1511.1	1359.3	1351.2
17.5°	5739.4	5529.3	4881.5	3594.1	2360.8	1538.2	1146.5	994.7	950.0	944.6
20°	5895.2	5602.5	4502.1	2825.6	1573.4	1046.2	880.9	802.3	768.4	763.0
22.5°	6060.6	5631.0	4006.1	2066.7	1084.2	837.5	727.8	653.2	618.0	612.6
25°	6277.4	5613.3	3413.8	1425.7	857.9	697.9	588.2	525.8	491.9	489.2
27.5°	6566.1	5544.2	2740.3	1020.5	727.8	577.3	474.3	417.4	395.7	393.0
30°	6871.0	5332.8	2081.6	803.6	613.9	471.6	382.2	340.2	323.9	321.2
32.5°	7283.0	5027.9	1492.1	662.7	509.6	384.9	313.1	280.5	269.7	268.3
35°	8021.6	4755.5	1011.0	546.2	416.1	315.8	261.6	238.5	233.1	233.1
37.5°	9021.7	4483.1	735.9	456.7	338.8	262.9	223.6	208.7	207.3	207.3
40°	10179.1	4155.1	586.8	384.9	283.2	225.0	193.8	183.0	185.7	185.7
42.5°	11350.0	3713.3	504.1	326.6	242.6	195.2	169.4	158.6	164.0	165.3
45°	12495.2	3126.5	444.5	280.5	212.8	169.4	146.4	136.9	143.7	143.7
47.5°	13518.4	2527.5	391.7	243.9	187.0	147.7	123.3	113.8	119.3	122.0
50°	14528.0	1939.3	342.9	215.5	168.0	127.4	103.0	94.9	100.3	103.0
52.5°	15419.8	1569.4	299.5	192.4	150.4	108.4	85.4	77.2	84.0	85.4
55°	16195.0	1279.3	258.8	172.1	131.5	90.8	69.1	63.7	70.5	71.8
57.5°	16850.9	1058.4	223.6	153.1	115.2	77.2	58.3	54.2	59.6	62.3
60°	17306.2	860.6	189.7	135.5	98.9	65.1	48.8	44.7	48.8	48.8
62.5°	17552.9	697.9	162.6	119.3	85.4	56.9	42.0	33.9	36.6	36.6
64°	17582.7	619.3	147.7	109.8	77.2	52.9	36.6	27.1	28.5	28.5
65°	17552.9	570.6	135.5	103.0	73.2	50.1	33.9	21.7	21.7	23.0
67.5°	17162.6	468.9	111.1	86.7	61.0	42.0	24.4	13.6	13.6	13.6
70°	16098.7	360.5	92.2	70.5	50.1	35.2	19.0	9.5	8.1	8.1
72.5°	12924.8	248.0	73.2	52.9	39.3	28.5	13.6	5.4	2.7	2.7
75°	6048.4	158.6	51.5	35.2	27.1	21.7	9.5	2.7	0.0	0.0
77.5°	1769.9	90.8	32.5	23.0	19.0	14.9	8.1	1.4	0.0	0.0
80°	360.5	36.6	21.7	17.6	14.9	12.2	6.8	1.4	0.0	0.0
82.5°	61.0	19.0	17.6	13.6	12.2	9.5	5.4	0.0	0.0	0.0
85°	23.0	13.6	14.9	12.2	10.8	8.1	4.1	0.0	0.0	0.0
87.5°	13.6	13.6	13.6	12.2	9.5	5.4	2.7	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)