

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: P639422

Luminaire Tested: **USSL-M-PA6D-740-U-T2U-HSS**

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-08
Report Number: P639422
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-PA6D-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: 47241 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

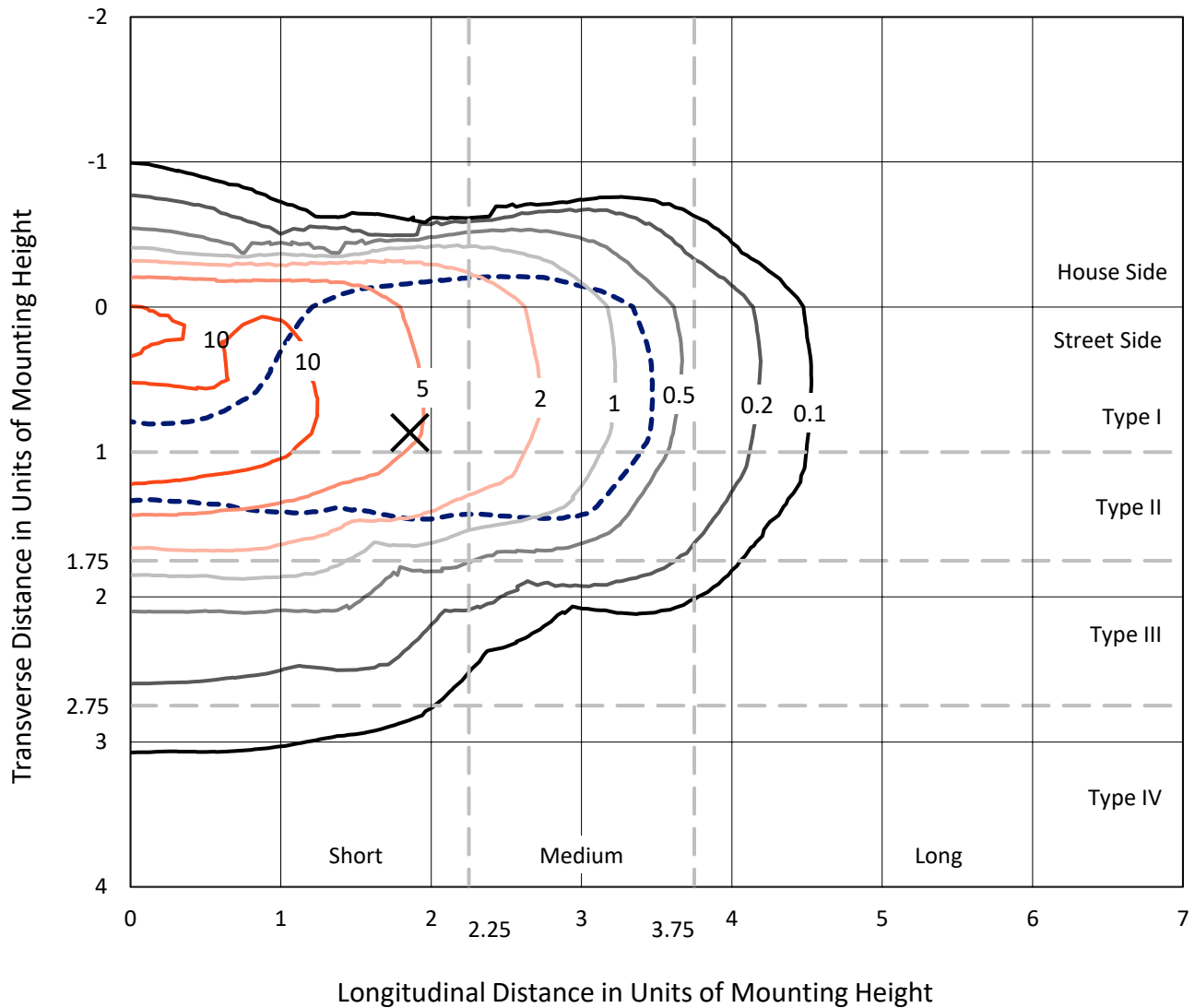
Input Watts (W): 544
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

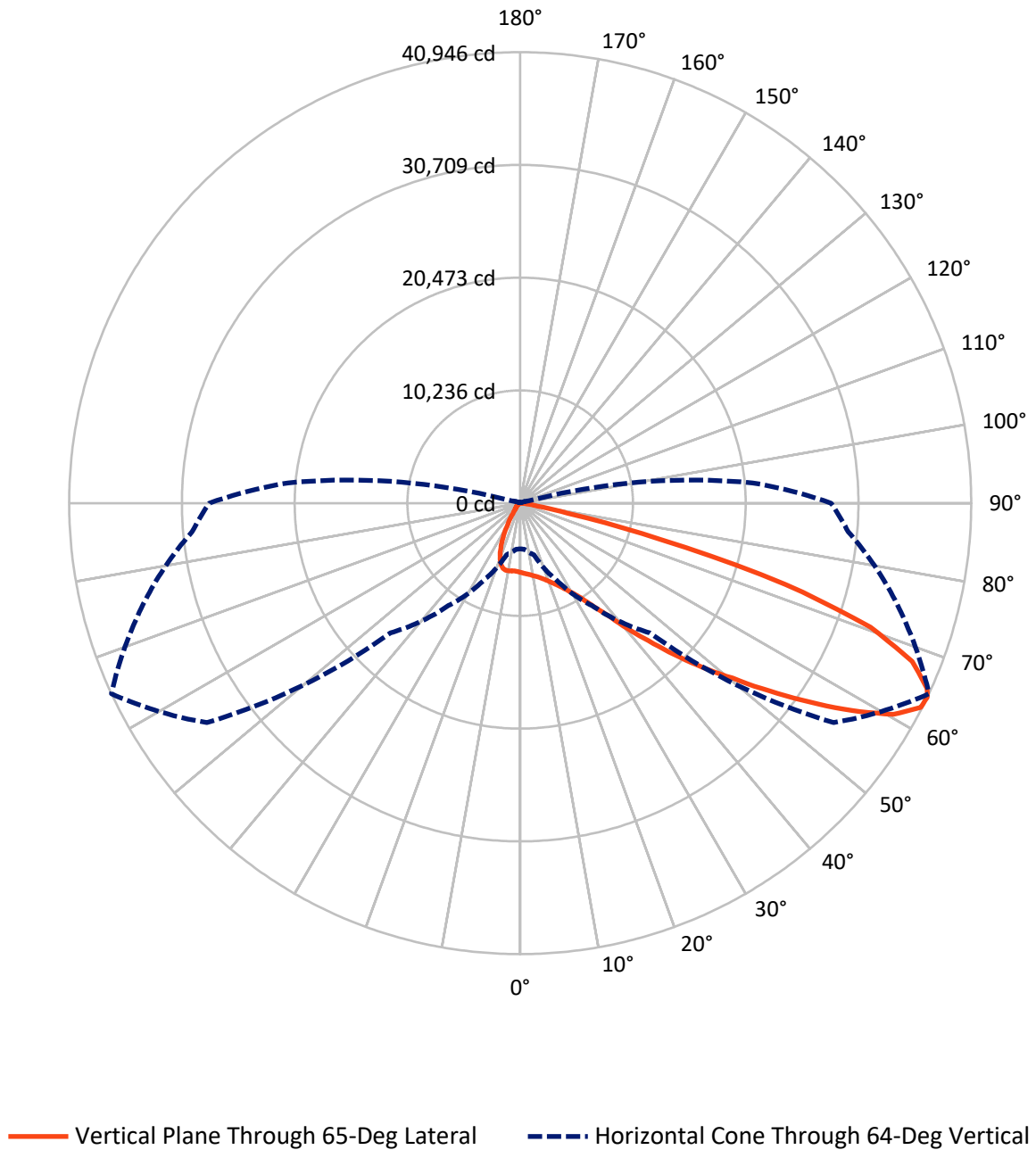


Based on 25 foot mounting height. Maximum calculated value = 16.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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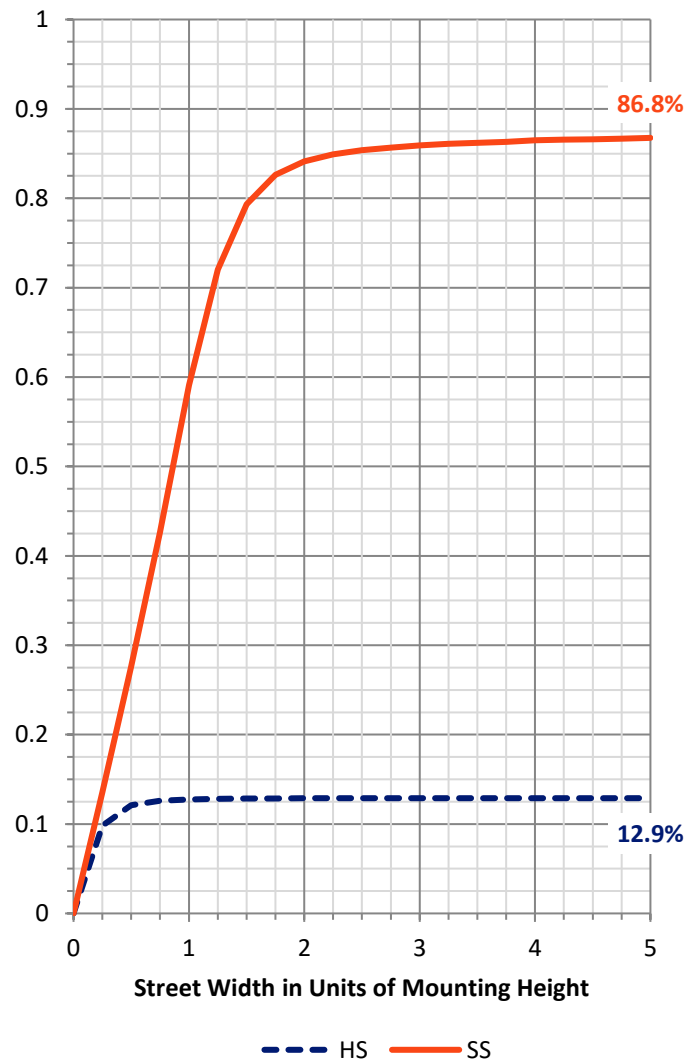
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6159.7	0.0	6159.7
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	41081.3	0.0	41081.3
	% Fixture	87.0	0.0	87.0
Total	Lumens	47241.0	0.0	47241.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	593.7	1.3
10°-20°	1579.3	3.3
20°-30°	2538.2	5.4
30°-40°	4626.0	9.8
40°-50°	9426.6	20.0
50°-60°	13002.8	27.5
60°-70°	10936.6	23.2
70°-80°	4283.8	9.1
80°-90°	254.0	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°	47241.0	100.0
0°-180°	47241.0	100.0

Coefficient of Utilization



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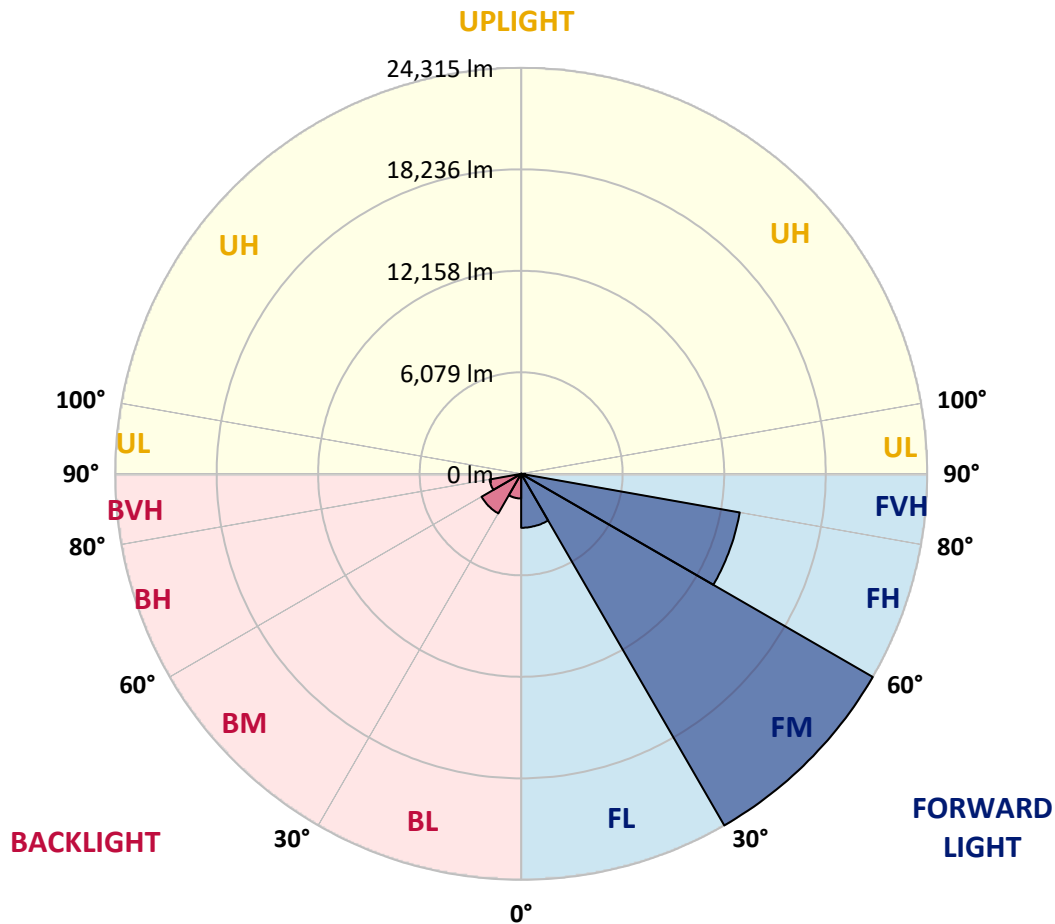
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3230.7	6.8			
FM	(30°-60°)	24315.2	51.5			
FH	(60°-80°)	13293.3	28.1			G5
FVH	(80°-90°)	242.1	0.5			G3/500
BL	(0°-30°)	1480.4	3.1	B3/2500		
BM	(30°-60°)	2740.3	5.8	B3/5000		
BH	(60°-80°)	1927.0	4.1	B3/2500		G3/2500
BVH	(80°-90°)	11.9	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6287.2	6287.2	6287.2	6287.2	6287.2	6287.2	6287.2	6287.2	6287.2	6287.2	6287.2
2.5°	6538.5	6479.7	6473.2	6465.1	6440.6	6424.3	6396.5	6372.0	6336.1	6303.5	6282.3
5°	6631.5	6566.2	6564.6	6566.2	6545.0	6525.4	6494.4	6453.6	6396.5	6337.8	6300.2
7.5°	6644.5	6584.2	6589.1	6595.6	6592.3	6592.3	6585.8	6559.7	6507.5	6427.5	6381.8
10°	6704.9	6651.1	6647.8	6644.5	6639.6	6654.3	6690.2	6701.7	6652.7	6571.1	6509.1
12.5°	6846.9	6788.1	6784.9	6773.5	6762.0	6773.5	6825.7	6856.7	6825.7	6727.8	6656.0
15°	7039.4	6977.4	6970.9	6959.5	6951.3	6972.5	7015.0	7047.6	7011.7	6902.4	6812.6
17.5°	7259.7	7183.0	7201.0	7191.2	7192.8	7207.5	7258.1	7290.7	7245.0	7114.5	7001.9
20°	7502.9	7422.9	7457.2	7470.2	7465.3	7498.0	7563.2	7592.6	7517.5	7344.6	7207.5
22.5°	7780.3	7698.7	7759.0	7806.4	7762.3	7832.5	7923.8	7941.8	7845.5	7607.3	7431.1
25°	8140.9	8044.6	8114.8	8168.6	8078.9	8189.8	8325.3	8361.2	8250.2	7967.9	7734.6
27.5°	8716.9	8586.3	8594.5	8581.4	8470.5	8596.1	8791.9	8871.9	8741.4	8398.7	8118.0
30°	10007.6	9782.4	9513.2	9150.9	8942.1	9116.7	9379.4	9519.7	9364.7	8896.4	8542.3
32.5°	12323.1	11967.4	11410.9	10360.1	9647.0	9746.5	10110.4	10327.4	10185.5	9632.3	9177.0
35°	15650.3	15128.1	14131.1	12750.6	11022.6	10593.4	11048.7	11530.0	11393.0	10790.9	10219.7
37.5°	19605.6	18928.5	17565.9	15692.7	13186.3	11879.2	12300.2	12889.3	12962.7	12266.0	11583.9
40°	22929.6	22226.3	21071.0	19078.6	16289.9	14012.0	13958.1	14958.4	14871.9	14025.0	13205.9
42.5°	25360.9	24667.4	23910.2	22371.5	20184.9	17512.1	16183.8	17068.3	16957.3	15870.5	14922.5
45°	26769.1	26098.4	25666.0	25044.3	23805.8	22508.6	19196.1	19605.6	19184.7	17802.5	16665.2
47.5°	27165.6	26475.4	26431.3	26780.5	27067.7	27296.2	23014.4	22283.4	21472.4	19630.1	18424.3
50°	25843.9	25422.9	26033.2	27501.8	29538.2	30887.7	27315.7	24972.5	23838.4	21609.5	20196.3
52.5°	21947.2	21886.9	23574.1	26599.4	30897.5	33971.7	31483.3	28327.4	26209.4	23481.1	21940.7
55°	16800.6	16784.3	18998.6	23025.8	30133.8	34981.8	35011.1	31886.3	28464.5	25251.6	23611.6
57.5°	11443.6	11629.6	14619.0	18181.1	26047.9	34063.1	37178.1	35533.3	30753.9	26937.2	25186.3
60°	7152.0	7227.1	9751.4	13848.8	19902.6	29654.1	37793.3	38935.5	32731.6	28330.7	26586.3
62.5°	4972.0	4996.5	6083.2	9917.9	14026.6	21731.8	36639.6	40828.4	34547.7	29422.3	27725.3
64°	4152.8	4196.9	4862.7	7620.3	11348.9	16655.4	34733.7	40945.9	35417.4	29895.6	28234.4
65°	3687.8	3751.4	4255.6	6303.5	9908.1	13308.7	32560.2	40601.6	35890.7	30124.0	28448.2
67.5°	2899.6	2885.0	3136.3	4053.3	7153.7	7269.5	24623.3	38384.0	36344.3	30166.4	28480.8
70°	2535.8	2553.7	2672.8	2929.0	5035.6	4572.2	12752.2	33736.7	34748.4	29003.0	27224.4
72.5°	1981.0	1985.9	2268.2	2535.8	3333.7	3036.7	5481.1	25163.4	28856.1	25073.7	23187.4
75°	1316.8	1378.8	1684.0	2204.5	2281.2	2059.3	2390.5	13160.2	17489.3	16761.5	14914.3
77.5°	884.4	915.4	1121.0	1628.5	2036.4	1308.7	1325.0	4405.8	7228.7	6478.1	5649.2
80°	561.3	582.5	737.6	1129.2	1576.3	953.0	781.6	1566.5	2031.5	1349.5	1098.2
82.5°	381.8	404.7	492.8	814.3	1010.1	858.3	466.7	726.1	796.3	352.5	266.0
85°	171.3	236.6	347.6	541.7	657.6	443.8	287.2	362.3	437.3	163.2	91.4
87.5°	32.6	49.0	202.3	292.1	197.4	106.1	140.3	137.1	192.5	65.3	29.4
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°	6287.2	6287.2	6287.2	6287.2	6287.2	6287.2	6287.2	6287.2	6287.2	6287.2
2.5°	6266.0	6246.4	6217.0	6186.0	6151.8	6135.4	6127.3	6114.2	6111.0	6047.3
5°	6277.4	6228.4	6173.0	6114.2	6052.2	6016.3	5990.2	5957.6	5942.9	5882.5
7.5°	6347.6	6267.6	6184.4	6084.8	5957.6	5812.3	5619.8	5510.5	5424.0	5375.0
10°	6468.3	6354.1	6226.8	6008.2	5647.5	5197.2	4712.5	4387.8	4218.1	4201.8
12.5°	6597.2	6445.5	6238.2	5729.1	4934.5	4131.6	3399.0	2966.5	2764.2	2756.1
15°	6739.2	6548.3	6140.3	5148.2	3935.8	2914.3	2193.1	1819.4	1636.7	1626.9
17.5°	6910.5	6657.6	5877.6	4327.4	2842.5	1852.1	1380.5	1197.7	1143.9	1137.3
20°	7098.2	6745.7	5420.7	3402.2	1894.5	1259.7	1060.6	966.0	925.2	918.7
22.5°	7297.3	6780.0	4823.5	2488.4	1305.4	1008.4	876.3	786.5	744.1	737.6
25°	7558.3	6758.8	4110.4	1716.6	1032.9	840.4	708.2	633.1	592.3	589.1
27.5°	7905.9	6675.5	3299.4	1228.7	876.3	695.1	571.1	502.6	476.5	473.2
30°	8273.0	6421.0	2506.4	967.6	739.2	567.9	460.2	409.6	390.0	386.7
32.5°	8769.1	6053.8	1796.6	797.9	613.5	463.4	376.9	337.8	324.7	323.1
35°	9658.4	5725.9	1217.3	657.6	501.0	380.2	314.9	287.2	280.7	280.7
37.5°	10862.7	5397.9	886.0	549.9	407.9	316.6	269.2	251.3	249.7	249.7
40°	12256.2	5003.0	706.6	463.4	341.0	270.9	233.3	220.3	223.6	223.6
42.5°	13666.0	4471.0	607.0	393.3	292.1	235.0	204.0	190.9	197.4	199.1
45°	15044.9	3764.5	535.2	337.8	256.2	204.0	176.2	164.8	173.0	173.0
47.5°	16276.8	3043.2	471.6	293.7	225.2	177.9	148.5	137.1	143.6	146.9
50°	17492.5	2335.1	412.8	259.5	202.3	153.4	124.0	114.2	120.8	124.0
52.5°	18566.2	1889.6	360.6	231.7	181.1	130.5	102.8	93.0	101.2	102.8
55°	19499.6	1540.4	311.7	207.2	158.3	109.3	83.2	76.7	84.9	86.5
57.5°	20289.4	1274.4	269.2	184.4	138.7	93.0	70.2	65.3	71.8	75.1
60°	20837.6	1036.2	228.4	163.2	119.1	78.3	58.7	53.8	58.7	58.7
62.5°	21134.6	840.4	195.8	143.6	102.8	68.5	50.6	40.8	44.1	44.1
64°	21170.5	745.7	177.9	132.2	93.0	63.6	44.1	32.6	34.3	34.3
65°	21134.6	687.0	163.2	124.0	88.1	60.4	40.8	26.1	26.1	27.7
67.5°	20664.7	564.6	133.8	104.4	73.4	50.6	29.4	16.3	16.3	16.3
70°	19383.7	434.0	111.0	84.9	60.4	42.4	22.8	11.4	9.8	9.8
72.5°	15562.1	298.6	88.1	63.6	47.3	34.3	16.3	6.5	3.3	3.3
75°	7282.6	190.9	62.0	42.4	32.6	26.1	11.4	3.3	0.0	0.0
77.5°	2131.1	109.3	39.2	27.7	22.8	17.9	9.8	1.6	0.0	0.0
80°	434.0	44.1	26.1	21.2	17.9	14.7	8.2	1.6	0.0	0.0
82.5°	73.4	22.8	21.2	16.3	14.7	11.4	6.5	0.0	0.0	0.0
85°	27.7	16.3	17.9	14.7	13.1	9.8	4.9	0.0	0.0	0.0
87.5°	16.3	16.3	16.3	14.7	11.4	6.5	3.3	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)