

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: P285853

Luminaire Tested: **USSL-XL-C069-D-U-T4-AP-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-10)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-C069-D-U-T4-AP-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD, GRAY
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39508.8 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

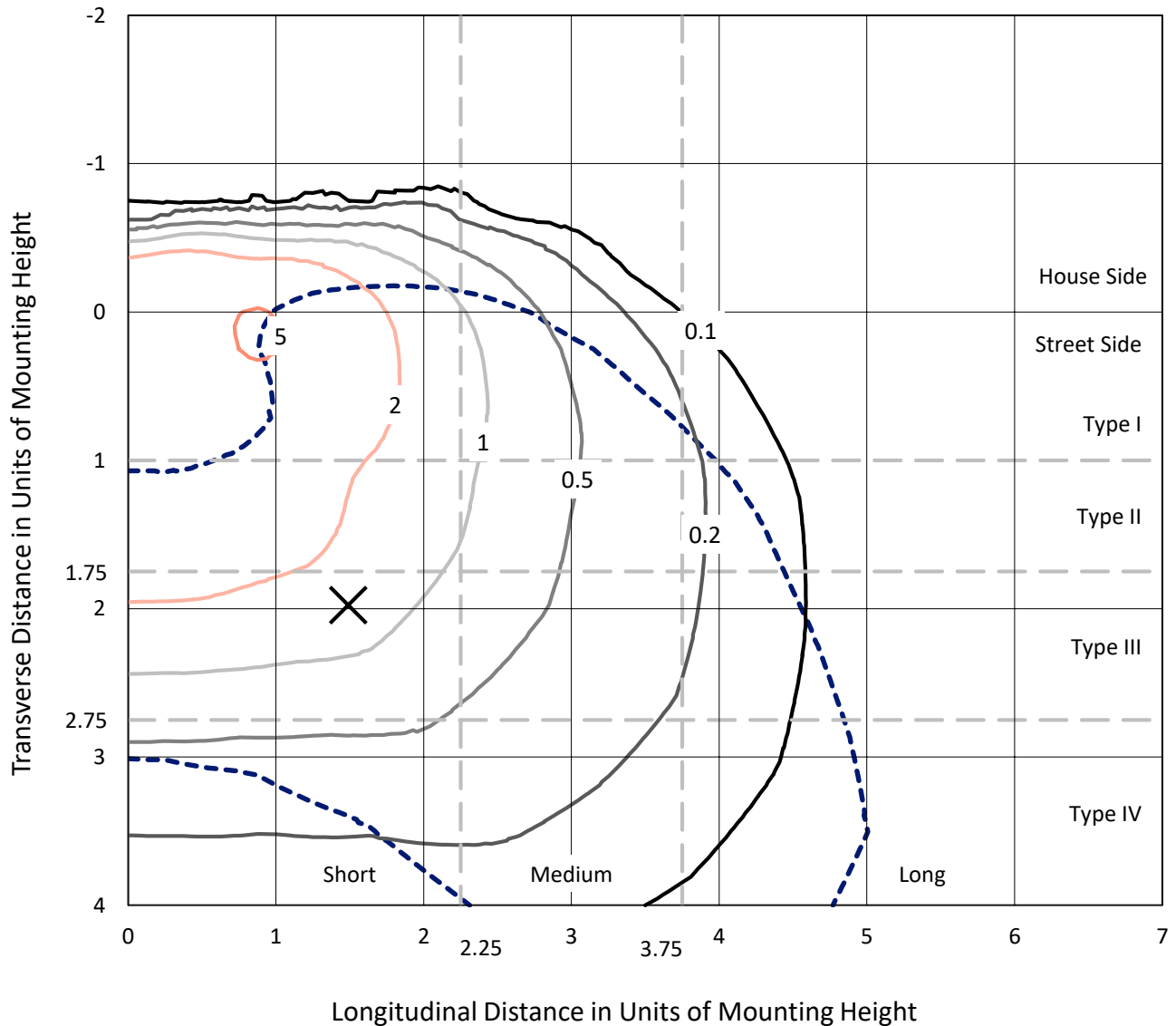
Input Watts (W): 285
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

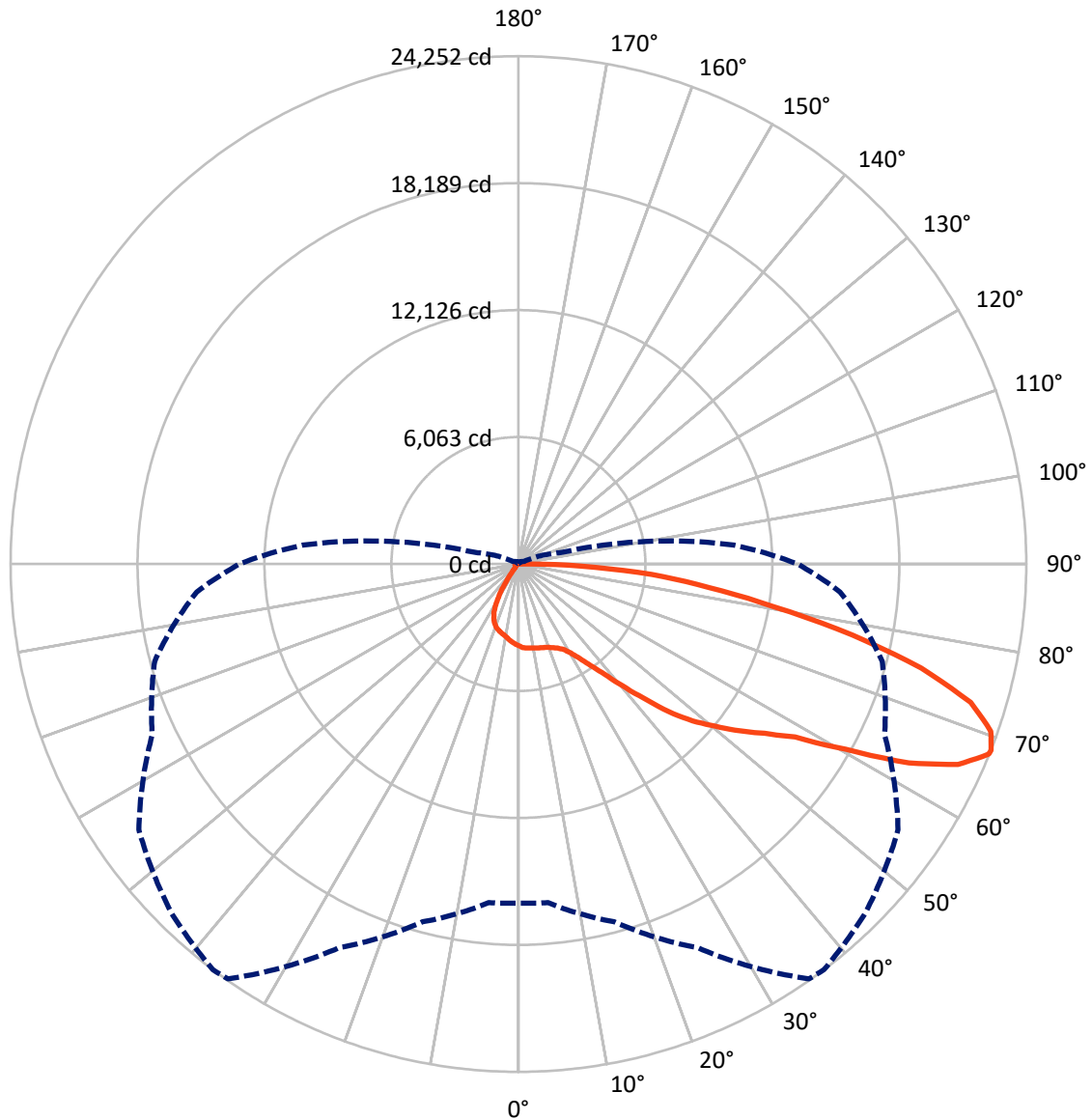
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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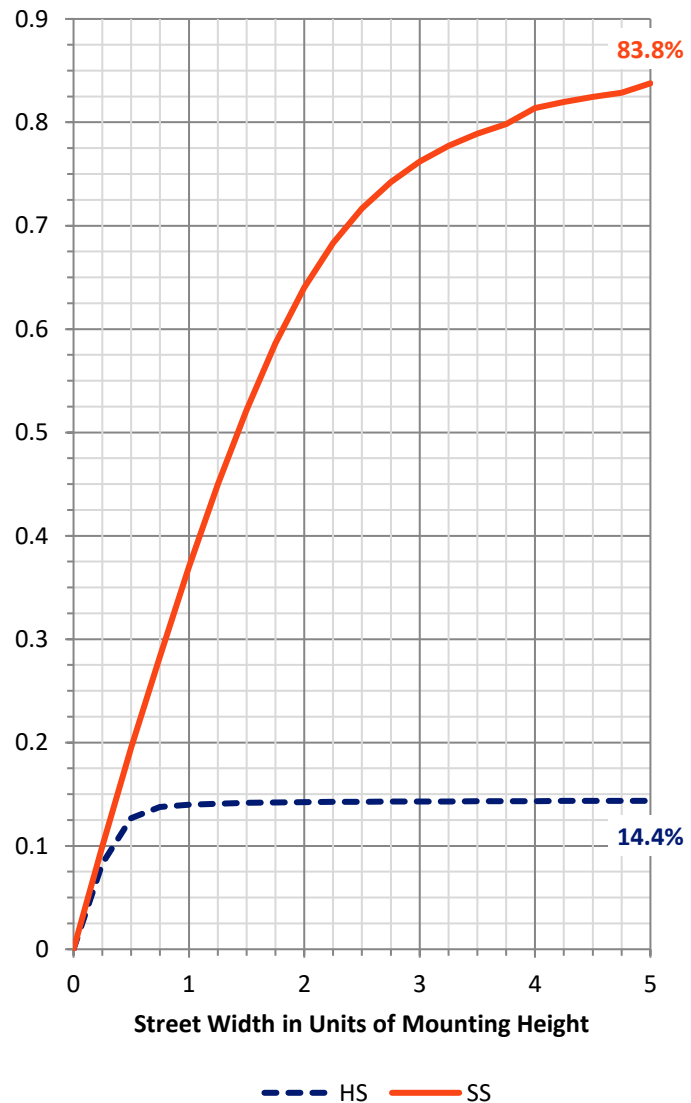
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5738.8	0.0	5738.8
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	33770.0	0.0	33770.0
	% Fixture	85.5	0.0	85.5
Total	Lumens	39508.8	0.0	39508.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.3	0.9
10°-20°	1096.2	2.8
20°-30°	1831.8	4.6
30°-40°	2975.3	7.5
40°-50°	5375.3	13.6
50°-60°	8006.9	20.3
60°-70°	10430.4	26.4
70°-80°	7679.4	19.4
80°-90°	1744.3	4.4
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°	39508.8	100.0
0°-180°	39508.8	100.0



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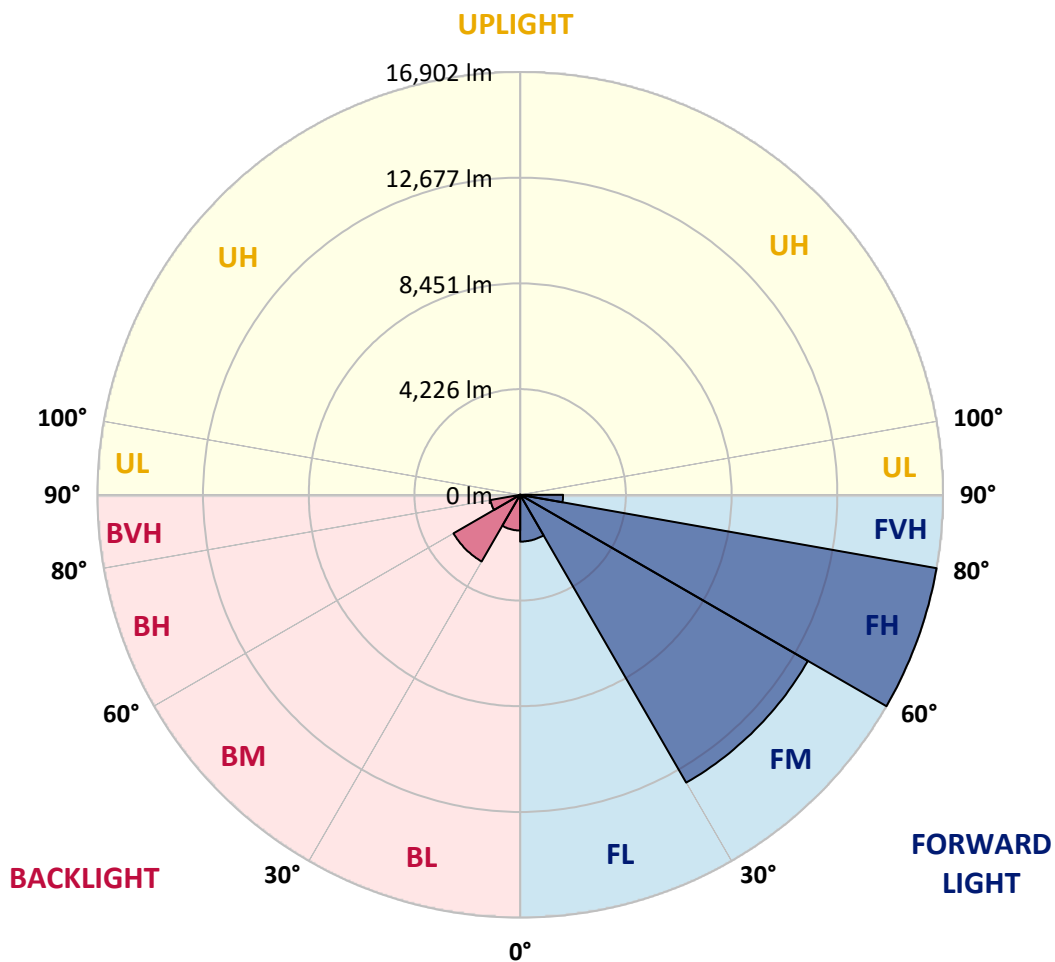
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1870.1	4.7			
FM	(30°-60°)	13282.1	33.6			
FH	(60°-80°)	16902.1	42.8			G5
FVH	(80°-90°)	1715.7	4.3			G5
BL	(0°-30°)	1427.2	3.6	B3/2500		
BM	(30°-60°)	3075.4	7.8	B3/5000		
BH	(60°-80°)	1207.6	3.1	B3/2500		G3/2500
BVH	(80°-90°)	28.6	0.1			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9
2.5°	3995.0	3998.3	3998.3	3993.3	4000.0	3995.0	3983.3	3971.6	3958.2	3904.9	3893.1
5°	4013.3	4021.7	4021.7	4020.0	4030.0	4028.4	4018.3	4008.3	3993.3	3929.9	3908.2
7.5°	4023.3	4031.6	4033.3	4030.0	4050.0	4053.4	4046.7	4046.7	4035.0	3971.6	3939.9
10°	4021.7	4023.3	4028.4	4036.6	4068.4	4076.7	4085.1	4098.4	4098.4	4046.7	4010.0
12.5°	3978.2	3979.9	3996.7	4035.0	4098.4	4111.8	4136.8	4173.5	4191.9	4163.5	4131.8
15°	3948.2	3948.2	3971.6	4031.6	4128.4	4146.9	4200.2	4257.0	4310.4	4307.0	4300.3
17.5°	3974.9	3979.9	4016.7	4068.4	4166.8	4186.8	4257.0	4348.8	4433.9	4470.6	4477.2
20°	4055.1	4060.1	4100.1	4153.5	4238.5	4253.6	4322.1	4432.2	4558.9	4639.1	4685.8
22.5°	4173.5	4176.9	4208.5	4248.6	4332.0	4342.1	4408.8	4527.3	4687.5	4824.3	4906.1
25°	4285.3	4292.0	4320.4	4350.4	4443.8	4452.2	4533.9	4659.1	4846.0	5029.5	5179.7
27.5°	4398.8	4410.5	4445.5	4487.2	4622.4	4625.7	4700.9	4824.3	5046.3	5296.5	5520.2
30°	4650.7	4637.4	4667.5	4722.5	4912.7	4924.4	4999.5	5138.1	5345.0	5627.0	5950.7
32.5°	5079.7	5064.6	5062.9	5144.8	5320.0	5376.7	5458.5	5677.0	5935.7	6216.0	6554.8
35°	5927.4	5904.0	5792.1	5765.5	5869.0	5949.0	6112.5	6433.0	6868.6	7481.0	7866.5
37.5°	7335.8	7305.8	7060.4	6771.7	6623.2	6673.2	6810.1	7254.0	7984.9	9281.5	9663.6
40°	8727.5	8734.2	8437.1	7956.6	7632.8	7642.8	7587.7	8100.1	9188.1	10961.9	11117.1
42.5°	10057.5	10045.8	9682.0	9243.2	8829.3	8747.6	8542.3	8986.2	10314.4	12317.0	12250.2
45°	11237.3	11214.0	10808.4	10563.1	10109.2	10065.9	9737.1	9885.6	11450.8	13394.9	13166.3
47.5°	12363.6	12343.7	11863.0	11631.1	11265.7	11190.5	10881.9	10956.9	12505.5	14242.7	13903.9
50°	13536.8	13576.9	12877.7	12610.7	12275.2	12176.8	12021.6	12066.6	13593.5	15040.3	14533.0
52.5°	14961.9	14760.0	14019.1	13525.1	13256.5	13236.5	13037.8	13133.0	14790.1	15741.2	15093.7
55°	16482.1	16215.1	15485.9	14841.8	14239.3	14274.4	13980.7	14120.8	15864.7	16346.9	15535.9
57.5°	17520.0	17513.4	17319.8	16704.0	15654.4	15581.0	15037.0	15155.5	16805.9	16972.7	15868.0
60°	18513.0	18784.9	18993.6	18718.3	18209.3	17975.7	16453.8	16233.4	17665.2	17538.5	16058.2
62.5°	19180.5	19263.9	20049.9	20281.8	20967.7	20922.6	19285.6	17538.5	18397.9	17905.5	16120.0
65°	18566.4	18634.8	19828.0	20944.4	22981.8	23075.3	22392.8	19692.7	18975.2	18032.4	15993.1
67.5°	16662.4	16712.4	18114.1	20425.3	24101.6	24225.1	23429.1	21940.6	19267.3	18010.7	15561.0
68°	16198.5	16233.4	17688.6	20206.8	24185.0	24251.8	23480.8	22127.4	19290.6	17985.7	15420.8
70°	14207.6	14201.0	15576.0	18908.5	23914.6	23934.7	23182.1	22331.0	19198.8	17748.7	14526.4
72.5°	10985.3	11198.9	12345.3	15926.5	22424.5	22584.7	22192.5	21768.7	18808.3	16790.8	12385.4
75°	7816.3	7983.3	9161.4	12420.4	19357.4	19862.9	20558.9	20714.0	17389.9	14431.3	9124.7
77.5°	5453.4	5630.3	6731.6	9276.6	15647.7	16308.6	17777.1	18007.4	14626.5	10940.3	4655.8
80°	3489.3	3657.8	4669.2	6746.7	11814.7	12378.7	13984.0	13651.9	10236.0	5860.6	816.0
82.5°	2121.0	2206.1	2970.4	4614.1	8610.7	9134.6	9668.6	8198.5	4899.4	829.4	262.0
85°	1204.8	1264.9	1822.3	2980.3	6082.6	6386.2	6506.4	4091.7	1019.6	223.6	150.2
87.5°	320.4	445.6	984.5	1837.2	3060.5	2982.0	3214.0	1465.1	183.6	96.8	71.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9
2.5°	3879.8	3876.5	3864.8	3859.8	3864.8	3859.8	3823.1	3826.5	3826.5	3808.0	3796.3
5°	3888.1	3879.8	3843.1	3836.4	3816.4	3784.7	3724.6	3711.2	3699.6	3669.6	3664.5
7.5°	3911.6	3899.8	3841.4	3814.7	3759.7	3703.0	3621.1	3572.8	3549.4	3512.7	3517.7
10°	3979.9	3954.9	3871.5	3819.8	3716.3	3622.8	3504.3	3430.9	3387.5	3332.4	3350.9
12.5°	4103.4	4065.0	3961.6	3871.5	3712.9	3574.4	3405.9	3270.7	3202.3	3138.9	3157.2
15°	4271.9	4230.3	4103.4	3966.6	3756.3	3554.4	3322.5	3108.9	2985.4	2903.6	2908.6
17.5°	4460.5	4423.8	4278.6	4096.7	3823.1	3541.0	3227.3	2940.3	2715.0	2598.2	2594.8
20°	4660.8	4639.1	4480.5	4235.3	3891.5	3511.0	3105.5	2725.0	2414.7	2217.7	2201.1
22.5°	4891.1	4881.1	4695.8	4372.1	3923.2	3442.6	2942.0	2458.0	2045.9	1778.8	1762.2
25°	5193.1	5178.1	4909.5	4467.2	3909.9	3327.5	2713.3	2137.6	1578.6	1271.6	1258.2
27.5°	5556.8	5481.8	5098.0	4515.6	3844.8	3145.6	2414.7	1662.0	1061.3	782.6	776.0
30°	5965.8	5818.9	5263.1	4520.6	3724.6	2891.9	1975.8	1074.6	617.4	440.5	437.2
32.5°	6496.4	6237.7	5441.7	4492.3	3541.0	2549.8	1411.8	615.8	310.3	237.0	237.0
35°	7541.0	6977.0	5670.4	4418.8	3285.8	2060.9	871.1	298.7	181.9	178.6	180.2
37.5°	9093.0	8173.5	6044.2	4300.3	2945.4	1485.1	447.2	166.8	166.8	173.5	175.2
40°	10463.0	9425.1	6583.1	4133.5	2493.1	939.5	213.6	156.9	166.8	168.5	171.9
42.5°	11547.6	10429.6	7152.2	3881.5	1962.4	500.6	178.6	151.9	155.2	153.5	160.2
45°	12415.5	11222.2	7591.1	3551.1	1385.1	257.0	185.3	146.8	135.1	135.1	138.5
47.5°	13091.2	11824.7	7866.5	3192.3	842.7	206.9	185.3	130.2	121.8	123.5	125.2
50°	13685.3	12275.2	7961.5	2750.1	423.9	210.3	178.6	123.5	108.4	110.1	113.5
52.5°	14112.5	12592.2	7889.8	2201.1	233.6	213.6	170.2	113.5	93.5	101.8	105.1
55°	14434.6	12742.4	7652.8	1565.3	212.0	210.3	165.2	101.8	83.4	100.2	105.1
57.5°	14616.4	12792.6	7250.7	1019.6	231.9	185.3	151.9	93.5	78.4	98.5	105.1
60°	14691.6	12700.8	6670.0	597.4	237.0	163.5	141.8	86.8	71.8	81.7	85.1
62.5°	14613.2	12465.5	5815.6	377.1	217.0	155.2	135.1	81.7	60.1	58.4	56.7
65°	14301.1	11883.1	4403.8	302.1	201.9	155.2	126.9	71.8	46.7	35.1	31.7
67.5°	13555.2	10681.6	2491.4	298.7	196.9	151.9	115.1	65.1	36.7	18.3	15.1
68°	13329.8	10336.1	2099.2	303.7	201.9	151.9	113.5	61.8	35.1	15.1	11.7
70°	11956.5	8472.2	724.2	292.0	230.3	160.2	108.4	53.4	28.4	6.7	5.0
72.5°	9104.6	5204.7	320.4	235.3	253.6	166.8	108.4	51.7	23.3	1.7	0.0
75°	5293.2	1281.6	273.7	158.6	212.0	198.6	125.2	60.1	21.7	0.0	0.0
77.5°	1283.2	295.4	238.6	91.8	166.8	217.0	148.5	66.8	23.3	0.0	0.0
80°	305.4	230.3	231.9	58.4	133.5	193.5	128.5	71.8	33.4	0.0	0.0
82.5°	201.9	181.9	206.9	31.7	76.7	143.5	90.1	45.0	41.8	0.0	0.0
85°	136.8	166.8	118.5	18.3	30.0	48.4	36.7	6.7	8.4	0.0	0.0
87.5°	76.7	48.4	20.0	8.4	6.7	5.0	0.0	0.0	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	0.0

(END OF REPORT)