

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: P285776

Luminaire Tested: **USSL-XL-C049-D-U-T2-BZ-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-6)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-C049-D-U-T2-BZ-7050-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29277 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 217
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

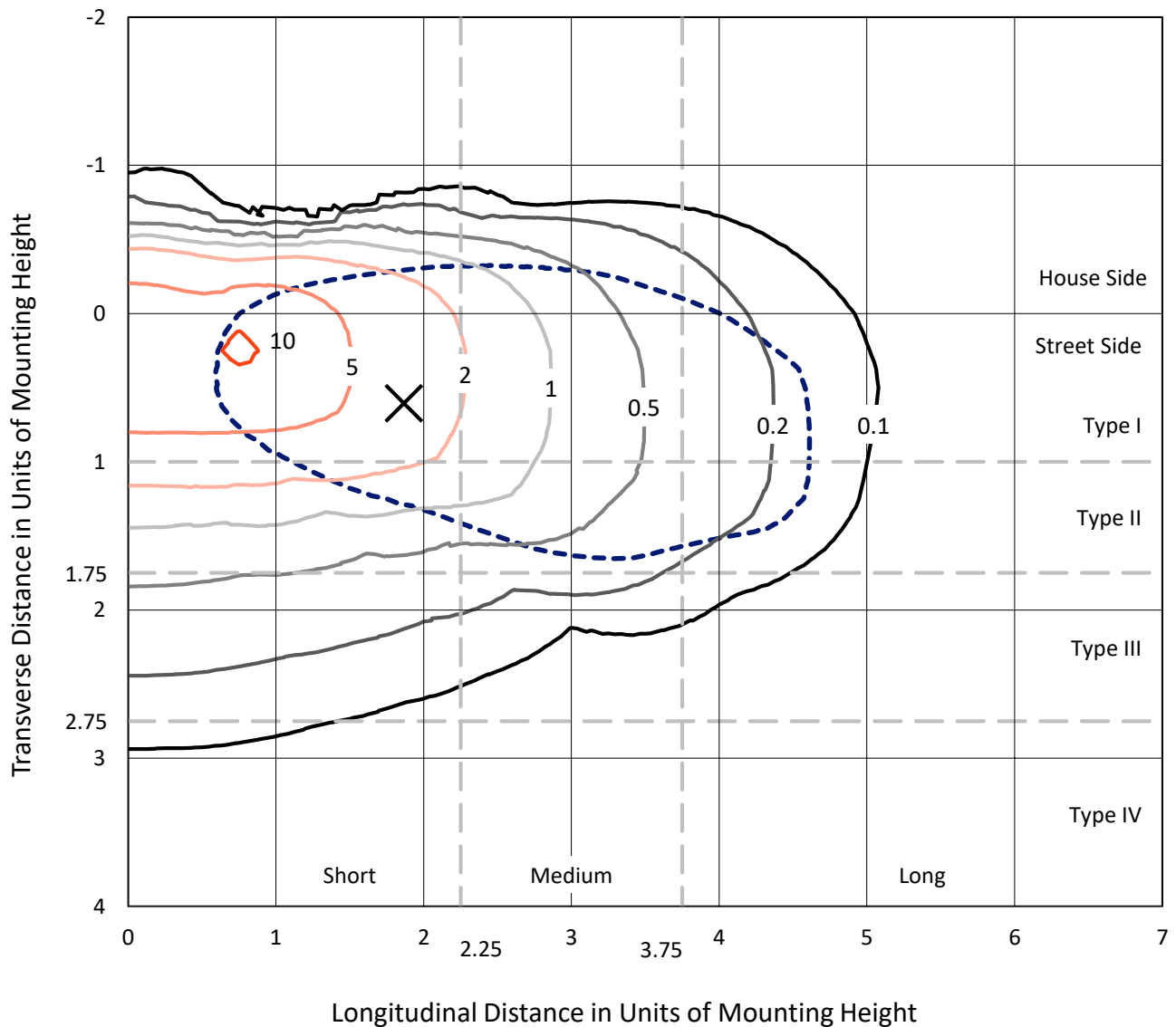


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

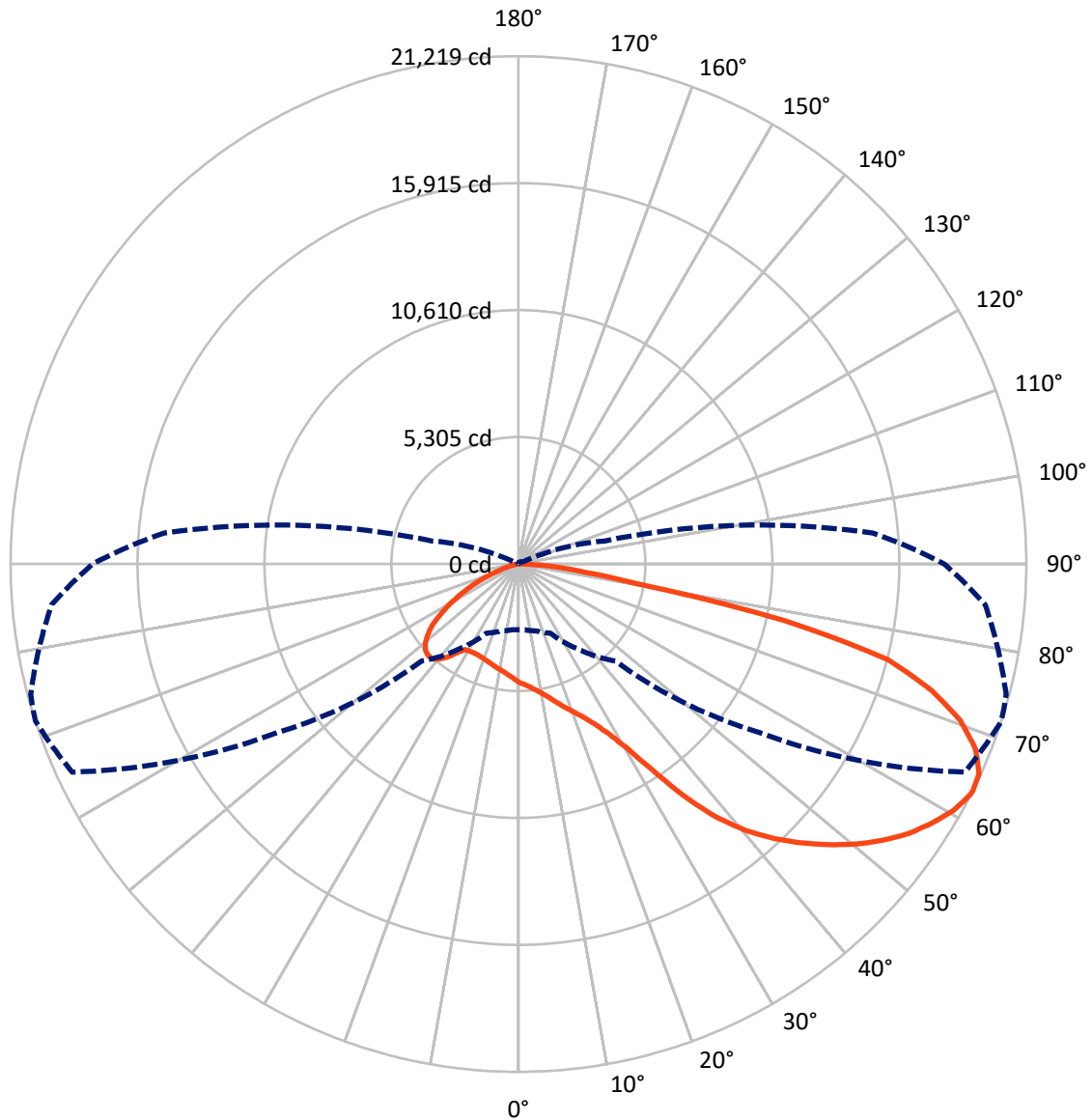


Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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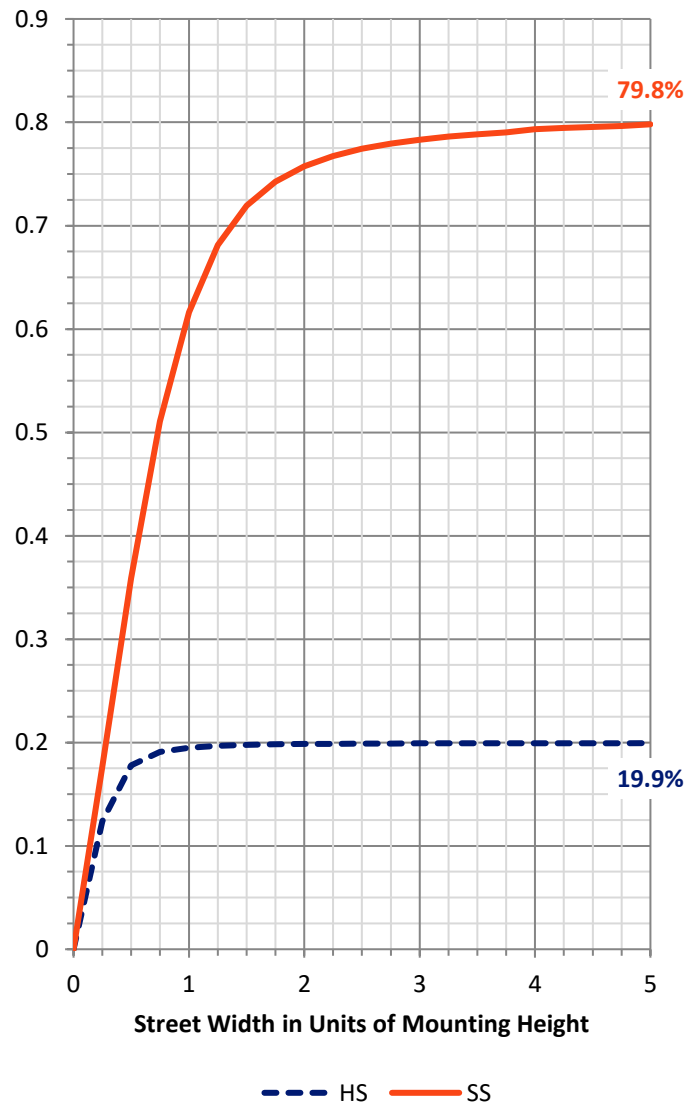
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5906.5	0.0	5906.5
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	23370.5	0.0	23370.5
	% Fixture	79.8	0.0	79.8
Total	Lumens	29277.0	0.0	29277.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.2	1.6
10°-20°	1434.8	4.9
20°-30°	2420.9	8.3
30°-40°	3705.1	12.7
40°-50°	5161.7	17.6
50°-60°	5982.5	20.4
60°-70°	5864.9	20.0
70°-80°	3661.7	12.5
80°-90°	572.3	2.0
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°	29277.0	100.0
0°-180°	29277.0	100.0

Coefficient of Utilization



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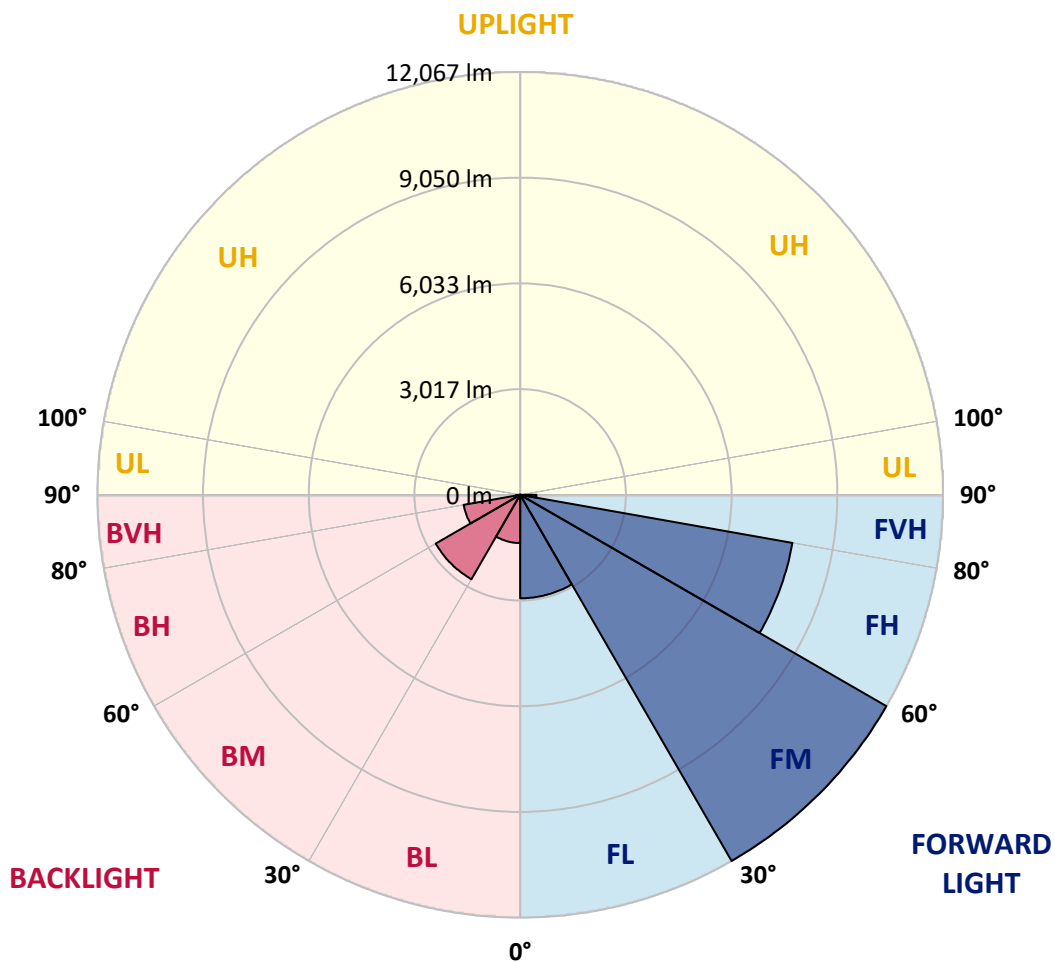
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2951.9	10.1			
FM	(30°-60°)	12066.7	41.2			
FH	(60°-80°)	7889.2	26.9			G4/12000
FVH	(80°-90°)	462.7	1.6			G3/500
BL	(0°-30°)	1377.0	4.7	B3/2500		
BM	(30°-60°)	2782.6	9.5	B3/5000		
BH	(60°-80°)	1637.3	5.6	B3/2500		G3/2500
BVH	(80°-90°)	109.7	0.4			G2/225
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°	72°	75°	85°
0°	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5
2.5°	5384.1	5369.6	5353.9	5334.5	5318.8	5270.3	5226.8	5143.2	5040.3	5035.5	4951.9
5°	5751.0	5728.0	5709.8	5675.9	5638.4	5552.4	5451.9	5311.5	5165.0	5142.0	4994.3
7.5°	6057.3	6033.1	6012.5	5968.9	5926.6	5821.2	5691.7	5502.8	5321.2	5275.2	5053.6
10°	6324.9	6300.7	6291.0	6243.8	6213.5	6098.5	5937.5	5732.8	5505.2	5435.0	5143.2
12.5°	6607.0	6581.6	6564.6	6515.0	6478.7	6356.4	6213.5	5984.7	5726.8	5651.7	5271.5
15°	6885.5	6862.5	6823.7	6797.1	6754.7	6627.6	6493.2	6254.7	5998.0	5903.6	5443.5
17.5°	7142.1	7122.8	7093.7	7070.7	7035.6	6903.6	6757.1	6554.9	6292.2	6176.0	5640.8
20°	7331.0	7332.2	7320.1	7308.0	7320.1	7212.4	7093.7	6868.5	6598.5	6462.9	5845.4
22.5°	7493.3	7502.9	7518.7	7536.8	7614.3	7561.1	7418.2	7235.4	6946.0	6786.2	6108.2
25°	7573.2	7580.4	7650.6	7769.3	7943.6	7942.4	7809.3	7677.3	7402.4	7236.6	6473.8
27.5°	7620.4	7630.1	7728.1	7966.6	8274.2	8321.4	8266.9	8208.8	8017.5	7851.6	6956.9
30°	7618.0	7631.3	7782.6	8081.7	8534.5	8774.2	8779.1	8993.4	8902.5	8788.7	7771.7
32.5°	7436.3	7441.2	7651.9	8092.6	8730.6	9176.2	9375.9	9937.7	10218.6	10239.2	9276.7
35°	7005.3	7067.1	7381.9	7994.5	8872.3	9569.7	10086.6	11144.8	11890.6	11925.8	10787.7
37.5°	6695.4	6732.9	7091.3	7818.9	8937.7	9980.1	10902.7	12594.1	13410.1	13324.2	12038.4
40°	6356.4	6402.4	6770.4	7584.1	8896.5	10332.4	11734.5	13985.2	14639.0	14504.6	13103.8
42.5°	5981.0	6019.8	6366.1	7236.6	8765.7	10586.7	12537.2	15187.5	15689.9	15525.3	14072.4
45°	5611.8	5637.2	5965.3	6768.0	8513.9	10741.7	13269.7	16269.9	16622.2	16483.0	14964.7
47.5°	5143.2	5173.5	5575.4	6321.3	8052.6	10736.8	13904.1	17232.4	17526.6	17371.7	15760.2
50°	3966.4	3985.7	4873.2	5915.7	7456.9	10523.7	14447.7	18104.1	18381.4	18204.6	16547.1
52.5°	3593.5	3609.2	3884.0	5410.8	6806.8	10081.8	14804.9	18908.1	19158.7	18969.8	17289.3
55°	3415.5	3426.4	3559.6	4403.5	6236.5	9323.9	14962.3	19652.7	19842.8	19598.2	17892.3
57.5°	3163.7	3185.4	3386.4	3771.4	5678.4	8160.4	14737.1	20254.4	20397.3	20157.6	18479.5
60°	2972.4	2985.7	3155.2	3460.3	5004.0	6858.8	13933.2	20661.2	20893.7	20677.0	19031.6
62.5°	2785.9	2790.7	2932.4	3229.0	4418.0	5886.6	12561.4	20635.8	21198.8	21064.4	19513.4
63°	2746.0	2750.8	2894.9	3186.7	4332.0	5725.6	12261.1	20574.1	21219.4	21097.1	19577.6
65°	2576.4	2583.7	2724.2	2992.9	3959.1	5215.9	10931.7	20193.9	21150.4	21146.7	19663.6
67.5°	2323.4	2336.7	2456.6	2686.6	3450.6	4571.7	8882.0	19788.3	20595.8	20639.4	19182.9
70°	2017.1	2026.8	2162.4	2356.1	2903.3	3881.6	6801.9	18491.6	19576.4	19455.3	18069.0
72.5°	1692.6	1709.6	1839.1	1989.2	2408.2	3202.4	4925.3	16279.6	18046.0	18135.6	16200.9
75°	1477.1	1486.8	1598.2	1704.7	2000.1	2548.6	3294.4	11689.7	15956.3	15979.3	13975.5
77.5°	1225.3	1237.4	1352.4	1452.9	1622.4	1919.0	2272.6	6075.5	11345.8	11989.9	10851.8
80°	675.6	784.6	974.6	1048.5	1174.4	1165.9	1445.6	3210.9	5020.9	6277.7	7167.6
82.5°	113.8	146.5	393.5	513.4	559.4	491.6	702.2	1767.7	2799.2	3212.1	3857.4
85°	48.4	70.2	205.8	225.2	140.4	136.8	277.3	925.0	1601.8	1845.2	1988.0
87.5°	6.1	10.9	53.3	70.2	32.7	44.8	55.7	289.4	558.1	641.7	725.2
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°	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5	4955.5
2.5°	4912.0	4884.1	4819.9	4770.3	4734.0	4684.3	4631.1	4592.3	4551.2	4533.0	4540.3
5°	4919.2	4857.5	4720.7	4612.9	4493.0	4404.7	4289.6	4231.5	4168.6	4137.1	4135.9
7.5°	4938.6	4841.7	4626.2	4456.7	4286.0	4148.0	3997.9	3894.9	3839.2	3798.1	3793.2
10°	4987.0	4849.0	4554.8	4324.8	4104.4	3919.2	3736.3	3603.2	3526.9	3484.5	3490.6
12.5°	5074.2	4875.6	4503.9	4217.0	3933.7	3713.3	3479.7	3323.5	3230.2	3178.2	3192.7
15°	5194.1	4933.8	4451.9	4083.8	3750.9	3491.8	3242.4	3065.6	2961.5	2916.7	2931.2
17.5°	5328.5	5018.5	4415.6	3934.9	3558.4	3265.4	3034.1	2861.0	2686.6	2651.5	2651.5
20°	5478.6	5112.9	4409.5	3793.2	3368.3	3049.8	2783.5	2638.2	2385.2	2299.2	2281.0
22.5°	5677.1	5246.1	4402.2	3663.7	3166.1	2827.1	2500.2	2271.3	1943.2	1795.5	1781.0
25°	5950.8	5430.2	4414.3	3557.1	2982.0	2576.4	2110.3	1743.5	1467.4	1282.2	1272.5
27.5°	6317.6	5675.9	4453.1	3457.9	2798.0	2267.7	1634.5	1243.4	1030.3	864.5	814.8
30°	7011.4	6064.6	4520.9	3369.5	2583.7	1853.6	1162.3	841.5	688.9	573.9	548.5
32.5°	8337.1	7040.4	4614.1	3271.4	2319.8	1365.7	776.1	561.8	438.3	371.7	386.2
35°	9659.3	8257.2	5058.5	3127.3	1972.3	909.3	518.2	358.4	276.0	273.6	289.4
37.5°	10850.6	9333.6	5659.0	2966.3	1507.4	611.4	311.2	238.5	231.3	251.8	283.3
40°	11838.6	10207.7	6166.3	2741.1	1035.2	374.1	203.4	216.7	205.8	214.3	210.7
42.5°	12756.3	10994.7	6577.9	2485.6	610.2	215.5	176.8	201.0	185.2	178.0	163.4
45°	13582.0	11736.9	6785.0	2083.7	356.0	171.9	161.0	190.1	179.2	165.9	144.1
47.5°	14333.9	12388.3	6920.6	1534.0	204.6	150.1	150.1	170.7	168.3	152.6	140.4
50°	15113.6	13025.1	6907.3	942.0	173.1	138.0	142.9	142.9	151.3	118.7	107.8
52.5°	15802.5	13597.8	6631.2	533.9	159.8	130.8	129.5	116.2	123.5	92.0	86.0
55°	16361.9	14043.3	6167.5	352.3	151.3	129.5	113.8	100.5	94.4	66.6	69.0
57.5°	16911.6	14467.1	5458.0	278.5	157.4	124.7	104.1	86.0	73.9	52.1	49.6
60°	17441.9	14804.9	4706.1	250.6	165.9	124.7	86.0	72.6	49.6	40.0	35.1
62.5°	17762.7	14878.7	3874.4	226.4	170.7	116.2	77.5	59.3	36.3	26.6	24.2
63°	17785.7	14857.0	3726.6	222.8	171.9	116.2	77.5	56.9	35.1	24.2	21.8
65°	17750.6	14582.1	3150.3	210.7	175.6	111.4	73.9	46.0	27.8	17.0	14.5
67.5°	17163.4	13663.2	2335.5	197.4	168.3	110.2	67.8	37.5	21.8	10.9	8.5
70°	15726.3	12236.9	1560.6	175.6	162.2	107.8	79.9	31.5	18.2	6.1	4.8
72.5°	13718.9	10698.1	1044.9	144.1	141.7	88.4	48.4	26.6	13.3	2.4	0.0
75°	11595.2	8609.6	646.5	110.2	115.0	75.1	38.7	23.0	10.9	0.0	0.0
77.5°	9026.0	6360.0	460.1	70.2	81.1	64.2	32.7	19.4	8.5	0.0	0.0
80°	6157.8	4310.2	333.0	38.7	42.4	42.4	26.6	14.5	4.8	0.0	0.0
82.5°	3571.7	2415.4	169.5	19.4	18.2	21.8	12.1	7.3	1.2	0.0	0.0
85°	1742.3	1070.3	29.1	10.9	9.7	9.7	4.8	0.0	0.0	0.0	0.0
87.5°	590.8	277.3	3.6	4.8	3.6	1.2	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)