

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: P285767

Luminaire Tested: **USSL-XL-C04-D-U-T2-AP-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285767
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-C04-D-U-T2-AP-7030-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, GRAY
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34975.6 lumens
Efficiency: N/A
Efficacy: 132.5 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): 264
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

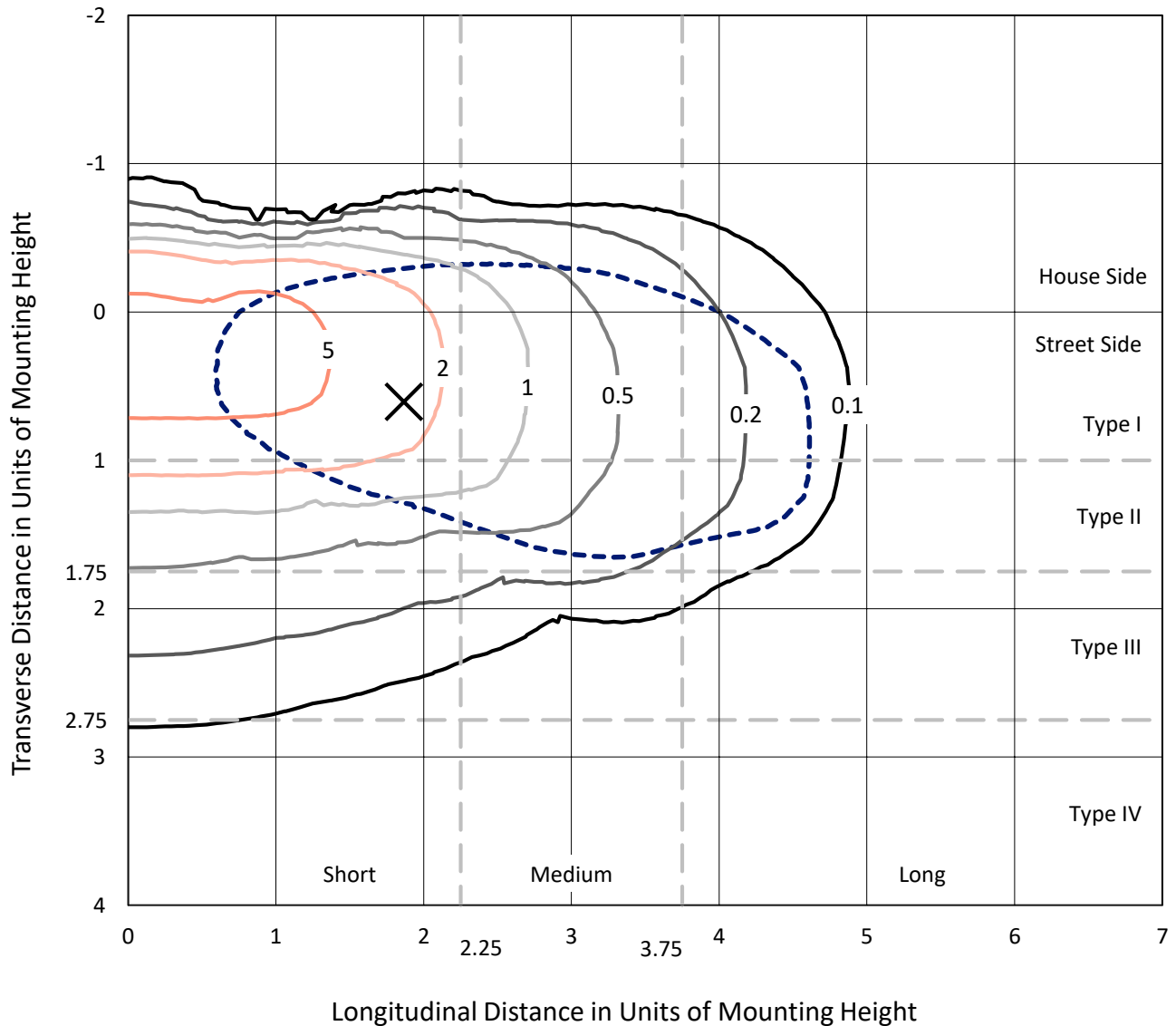


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

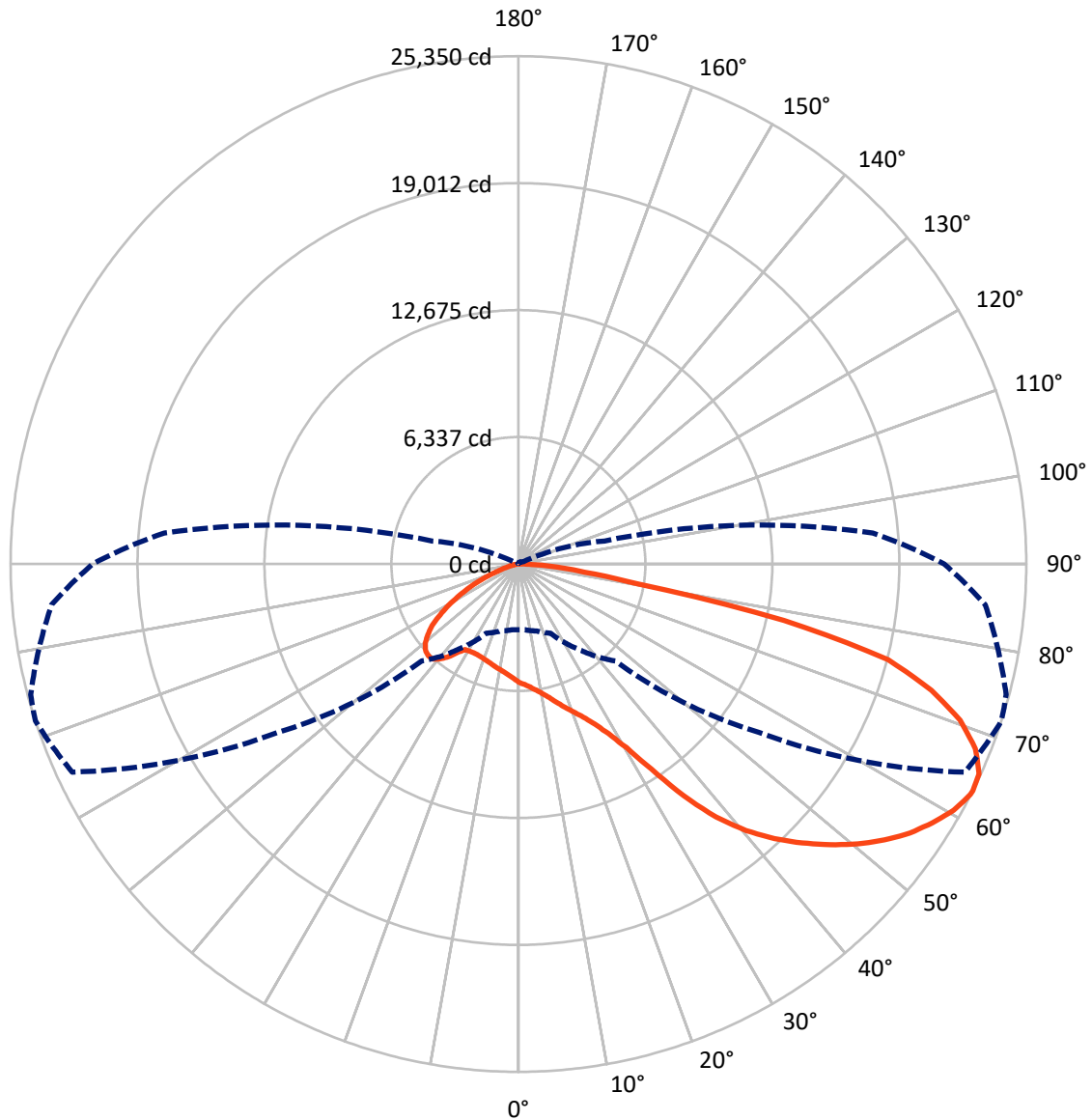


Based on 30 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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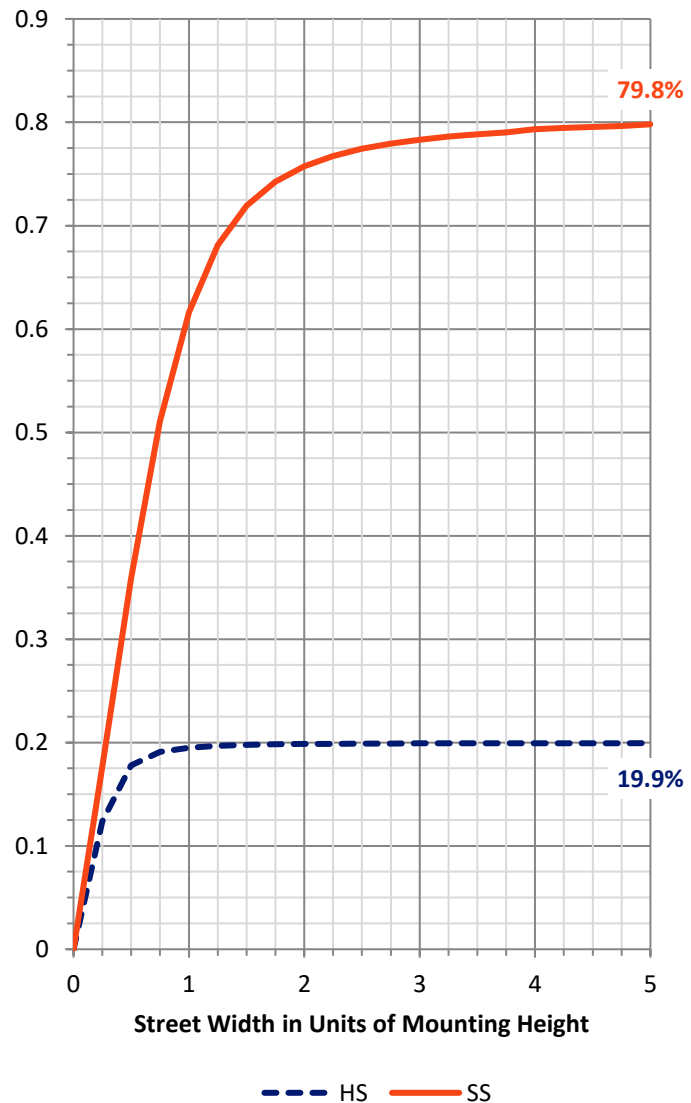
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7056.2	0.0	7056.2
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	27919.4	0.0	27919.4
	% Fixture	79.8	0.0	79.8
Total	Lumens	34975.6	0.0	34975.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	565.3	1.6
10°-20°	1714.1	4.9
20°-30°	2892.1	8.3
30°-40°	4426.3	12.7
40°-50°	6166.4	17.6
50°-60°	7146.9	20.4
60°-70°	7006.5	20.0
70°-80°	4374.4	12.5
80°-90°	683.7	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°	34975.6	100.0
0°-180°	34975.6	100.0

Coefficient of Utilization



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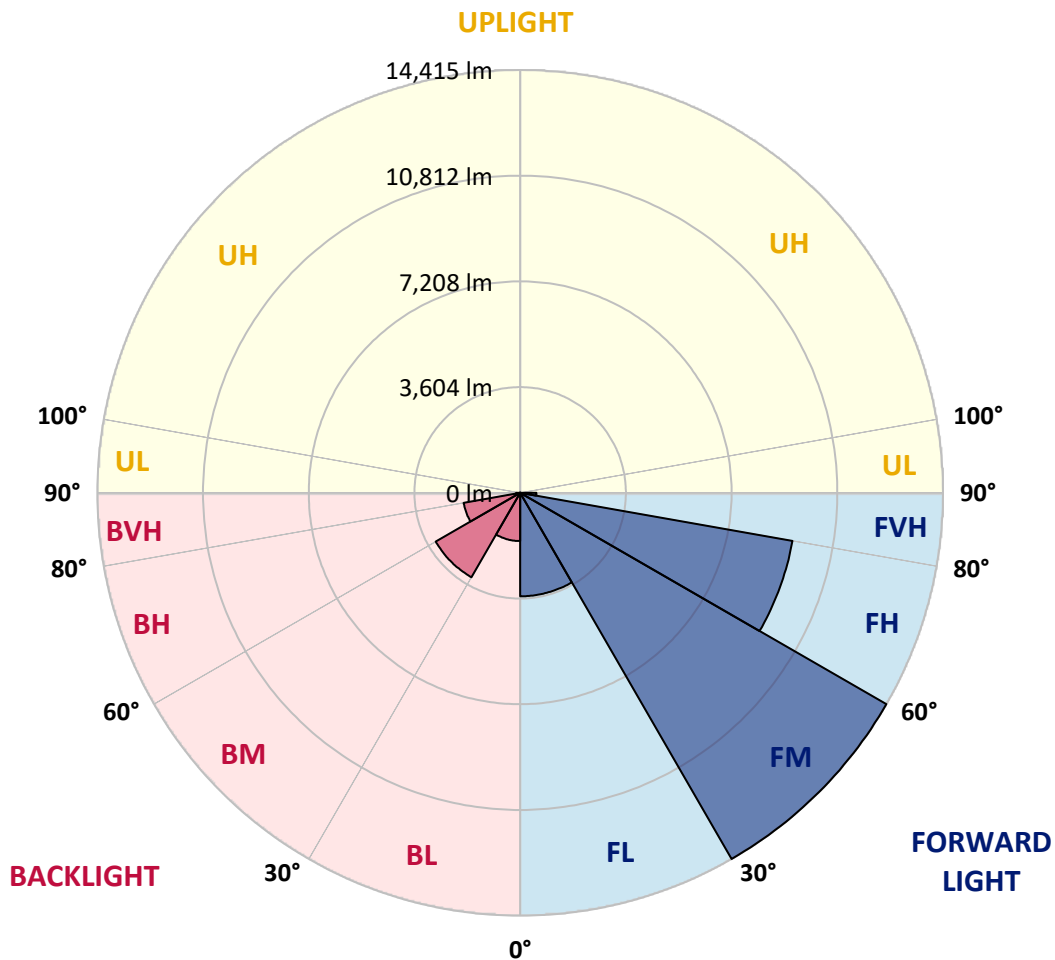
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3526.5	10.1			
FM	(30°-60°)	14415.4	41.2			
FH	(60°-80°)	9424.8	26.9			G4/12000
FVH	(80°-90°)	552.7	1.6			G4/750
BL	(0°-30°)	1645.0	4.7	B3/2500		
BM	(30°-60°)	3324.2	9.5	B3/5000		
BH	(60°-80°)	1956.0	5.6	B3/2500		G3/2500
BVH	(80°-90°)	131.0	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°	5920.1	5920.1	5920.1	5920.1	5920.1	5920.1	5920.1	5920.1	5920.1	5920.1	5920.1
2.5°	6432.1	6414.8	6396.0	6372.9	6354.0	6296.2	6244.1	6144.3	6021.4	6015.6	5915.8
5°	6870.4	6842.9	6821.2	6780.7	6735.9	6633.2	6513.2	6345.4	6170.3	6142.9	5966.4
7.5°	7236.4	7207.4	7182.8	7130.8	7080.1	6954.3	6799.6	6573.9	6357.0	6302.0	6037.3
10°	7556.0	7527.1	7515.5	7459.0	7422.9	7285.5	7093.2	6848.8	6576.8	6492.9	6144.3
12.5°	7893.0	7862.7	7842.4	7783.1	7739.7	7593.7	7422.9	7149.6	6841.4	6751.8	6297.6
15°	8225.7	8198.2	8151.9	8120.1	8069.4	7917.6	7757.1	7472.1	7165.5	7052.7	6503.0
17.5°	8532.3	8509.2	8474.4	8447.0	8405.0	8247.4	8072.4	7830.9	7516.9	7378.1	6738.7
20°	8758.0	8759.4	8744.9	8730.5	8744.9	8616.2	8474.4	8205.4	7882.9	7720.8	6983.3
22.5°	8951.8	8963.4	8982.1	9003.9	9096.4	9032.8	8862.1	8643.7	8298.0	8107.1	7297.1
25°	9047.2	9055.9	9139.8	9281.5	9489.8	9488.4	9329.2	9171.6	8843.3	8645.2	7733.9
27.5°	9103.7	9115.2	9232.4	9517.4	9884.7	9941.1	9876.0	9806.6	9578.1	9379.9	8311.0
30°	9100.7	9116.6	9297.4	9654.7	10195.7	10482.1	10487.8	10743.9	10635.4	10499.5	9284.4
32.5°	8883.8	8889.6	9141.2	9667.8	10430.1	10962.2	11200.9	11872.0	12207.6	12232.2	11082.3
35°	8368.9	8442.6	8818.7	9550.5	10599.2	11432.4	12050.0	13314.1	14205.1	14247.1	12887.4
37.5°	7998.6	8043.5	8471.6	9340.9	10677.3	11922.7	13024.8	15045.5	16020.4	15917.7	14381.6
40°	7593.7	7648.6	8088.3	9060.2	10628.1	12343.6	14018.6	16707.4	17488.5	17327.9	15654.4
42.5°	7145.2	7191.5	7605.2	8645.2	10471.9	12647.4	14977.4	18143.7	18743.9	18547.2	16811.5
45°	6704.1	6734.4	7126.4	8085.3	10171.1	12832.5	15852.6	19436.8	19857.7	19691.4	17877.5
47.5°	6144.3	6180.5	6660.7	7551.7	9620.0	12826.7	16610.4	20586.6	20938.1	20752.9	18827.9
50°	4738.4	4761.6	5821.8	7067.1	8908.4	12572.1	17259.9	21628.0	21959.2	21748.1	19768.0
52.5°	4292.9	4311.7	4640.0	6464.0	8131.7	12044.2	17686.6	22588.5	22887.9	22662.3	20654.6
55°	4080.3	4093.3	4252.4	5260.6	7450.5	11138.7	17874.6	23478.0	23705.1	23412.9	21374.9
57.5°	3779.5	3805.5	4045.5	4505.5	6783.6	9748.7	17605.6	24196.9	24367.5	24081.1	22076.4
60°	3550.9	3566.8	3769.3	4133.8	5977.9	8193.9	16645.2	24682.8	24960.5	24701.6	22736.0
62.5°	3328.2	3333.9	3503.2	3857.5	5277.9	7032.4	15006.4	24652.4	25325.0	25164.5	23311.7
63°	3280.4	3286.2	3458.3	3806.9	5175.2	6840.1	14647.7	24578.7	25349.6	25203.6	23388.3
65°	3077.9	3086.6	3254.4	3575.5	4729.7	6231.0	13059.6	24124.5	25267.2	25262.8	23491.0
67.5°	2775.7	2791.6	2934.8	3209.6	4122.3	5461.7	10610.8	23640.0	24604.7	24656.8	22916.7
70°	2409.7	2421.2	2583.3	2814.7	3468.5	4637.2	8125.9	22090.9	23386.9	23242.2	21586.1
72.5°	2022.1	2042.3	2197.1	2376.4	2876.9	3825.7	5883.9	19448.3	21558.6	21665.6	19354.3
75°	1764.6	1776.2	1909.2	2036.5	2389.4	3044.7	3935.6	13965.0	19062.1	19089.6	16695.9
77.5°	1463.7	1478.2	1615.6	1735.7	1938.1	2292.6	2714.9	7258.1	13554.2	14323.7	12964.1
80°	807.1	937.3	1164.4	1252.6	1403.0	1392.9	1727.0	3835.9	5998.2	7499.6	8562.7
82.5°	136.0	175.0	470.1	613.3	668.3	587.3	838.9	2111.7	3344.1	3837.3	4608.2
85°	57.9	83.9	245.9	269.0	167.8	163.4	331.2	1105.1	1913.5	2204.3	2375.0
87.5°	7.2	13.0	63.6	83.9	39.0	53.5	66.6	345.7	666.8	766.6	866.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5920.1	5920.1	5920.1	5920.1	5920.1	5920.1	5920.1	5920.1	5920.1	5920.1	5920.1
2.5°	5868.0	5834.7	5758.1	5698.9	5655.4	5596.2	5532.5	5486.1	5437.1	5415.3	5424.0
5°	5876.7	5803.0	5639.5	5510.7	5367.5	5262.0	5124.6	5055.2	4979.9	4942.3	4940.9
7.5°	5899.8	5784.2	5526.7	5324.2	5120.3	4955.4	4776.0	4653.1	4586.5	4537.3	4531.6
10°	5957.7	5792.9	5441.3	5166.6	4903.3	4682.0	4463.6	4304.5	4213.4	4162.8	4170.0
12.5°	6061.9	5824.7	5380.6	5037.8	4699.4	4436.1	4156.9	3970.4	3859.0	3796.8	3814.2
15°	6205.1	5894.1	5318.4	4878.7	4480.9	4171.4	3873.5	3662.3	3537.9	3484.4	3501.7
17.5°	6365.7	5995.3	5275.0	4700.8	4250.9	3901.0	3624.6	3417.9	3209.6	3167.6	3167.6
20°	6545.0	6108.2	5267.8	4531.6	4023.9	3643.5	3325.2	3151.7	2849.4	2746.7	2725.0
22.5°	6782.2	6267.3	5259.1	4376.9	3782.4	3377.4	2986.8	2713.4	2321.5	2145.0	2127.6
25°	7109.1	6487.1	5273.5	4249.6	3562.5	3077.9	2521.1	2082.8	1753.1	1531.8	1520.2
27.5°	7547.3	6780.7	5319.9	4131.0	3342.6	2709.1	1952.7	1485.4	1230.9	1032.8	973.4
30°	8376.1	7245.1	5400.8	4025.3	3086.6	2214.4	1388.6	1005.2	823.0	685.5	655.2
32.5°	9959.9	8410.8	5512.2	3908.2	2771.3	1631.5	927.1	671.1	523.6	444.1	461.4
35°	11539.3	9864.5	6043.0	3736.0	2356.2	1086.3	619.1	428.1	329.7	326.9	345.7
37.5°	12962.7	11150.4	6760.5	3543.7	1800.8	730.5	371.7	284.9	276.2	300.8	338.4
40°	14142.9	12194.6	7366.5	3274.7	1236.7	447.0	243.0	258.9	245.9	256.0	251.7
42.5°	15239.2	13134.8	7858.3	2969.4	729.0	257.4	211.1	240.1	221.3	212.6	195.2
45°	16225.7	14021.4	8105.6	2489.3	425.2	205.4	192.4	227.1	214.1	198.2	172.1
47.5°	17124.0	14799.6	8267.6	1832.6	244.4	179.3	179.3	203.9	201.1	182.2	167.8
50°	18055.4	15560.4	8251.7	1125.3	206.8	164.9	170.6	170.6	180.8	141.7	128.8
52.5°	18878.4	16244.6	7921.9	637.8	190.9	156.2	154.7	138.8	147.5	109.9	102.7
55°	19546.7	16776.8	7368.0	420.9	180.8	154.7	136.0	120.1	112.8	79.6	82.5
57.5°	20203.3	17283.0	6520.4	332.7	188.0	149.0	124.4	102.7	88.2	62.2	59.4
60°	20836.9	17686.6	5622.1	299.4	198.2	149.0	102.7	86.8	59.4	47.7	42.0
62.5°	21220.2	17774.8	4628.5	270.5	203.9	138.8	92.5	70.9	43.3	31.8	28.9
63°	21247.6	17748.8	4452.0	266.1	205.4	138.8	92.5	67.9	42.0	28.9	26.1
65°	21205.7	17420.4	3763.5	251.7	209.8	133.0	88.2	55.0	33.3	20.2	17.4
67.5°	20504.2	16322.7	2790.1	235.7	201.1	131.6	81.0	44.8	26.1	13.0	10.2
70°	18787.3	14618.8	1864.4	209.8	193.9	128.8	95.5	37.6	21.7	7.2	5.8
72.5°	16389.1	12780.4	1248.2	172.1	169.3	105.6	57.9	31.8	15.9	2.9	0.0
75°	13852.2	10285.4	772.3	131.6	137.4	89.7	46.3	27.5	13.0	0.0	0.0
77.5°	10782.9	7598.0	549.7	83.9	96.9	76.6	39.0	23.1	10.2	0.0	0.0
80°	7356.4	5149.2	397.8	46.3	50.7	50.7	31.8	17.4	5.8	0.0	0.0
82.5°	4266.8	2885.6	202.5	23.1	21.7	26.1	14.4	8.7	1.5	0.0	0.0
85°	2081.3	1278.7	34.8	13.0	11.6	11.6	5.8	0.0	0.0	0.0	0.0
87.5°	705.9	331.2	4.3	5.8	4.3	1.5	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)