

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: P285778

Luminaire Tested: **USSL-XL-C069-D-U-T2-AP-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285778
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-C069-D-U-T2-AP-7050-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K 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: 41083.9 lumens
Efficiency: N/A
Efficacy: 144.2 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): 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

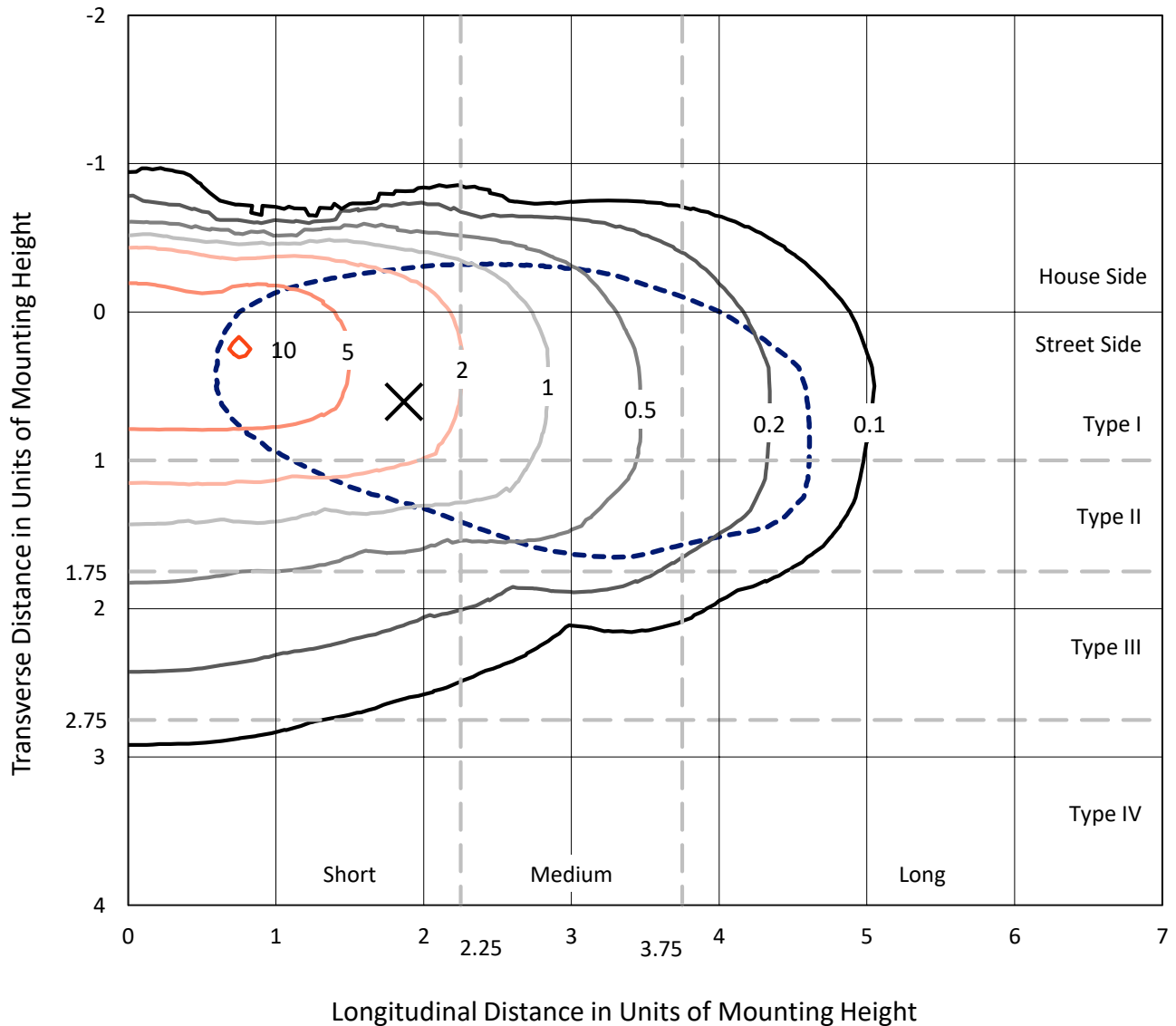


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

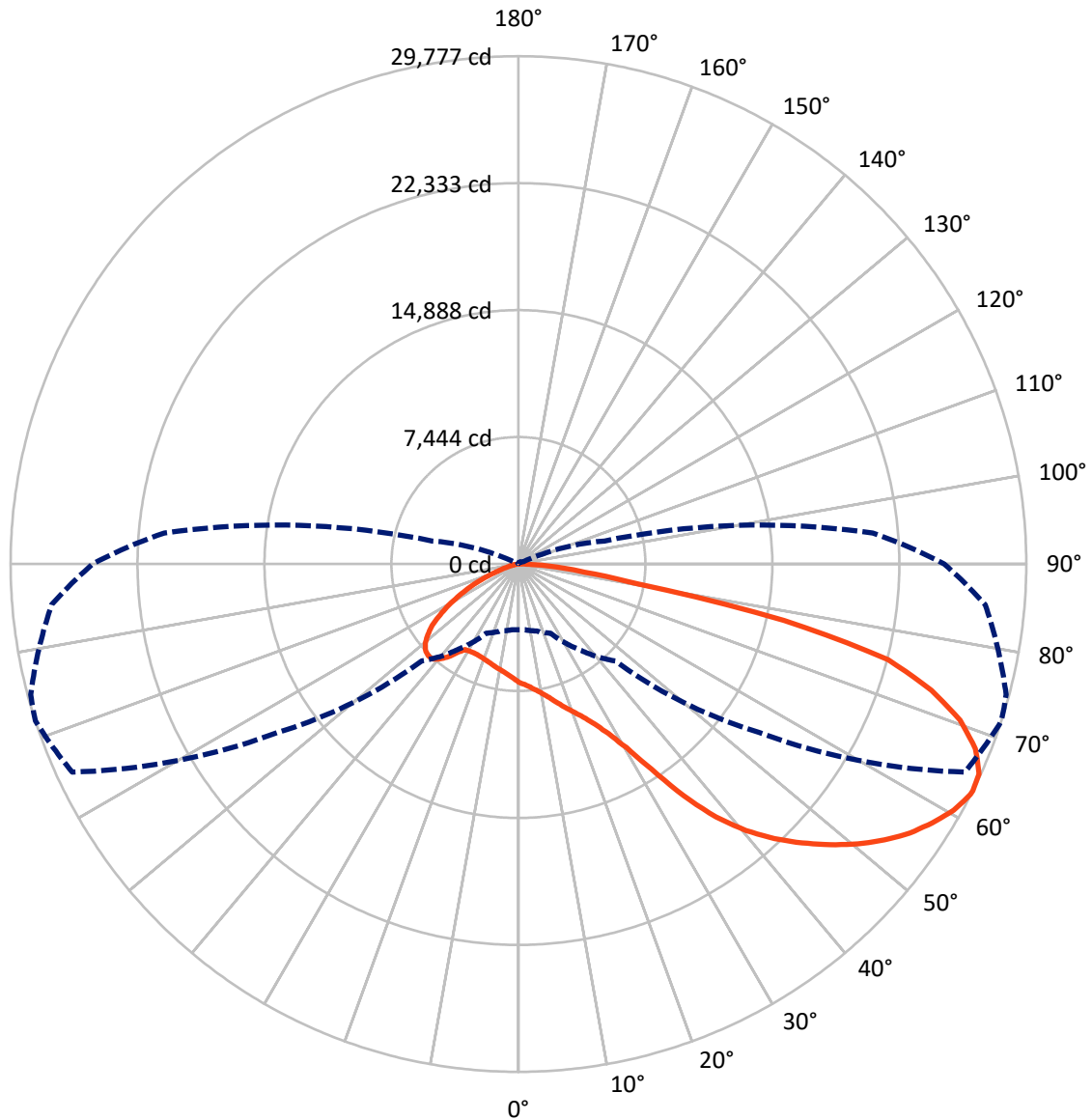


Based on 30 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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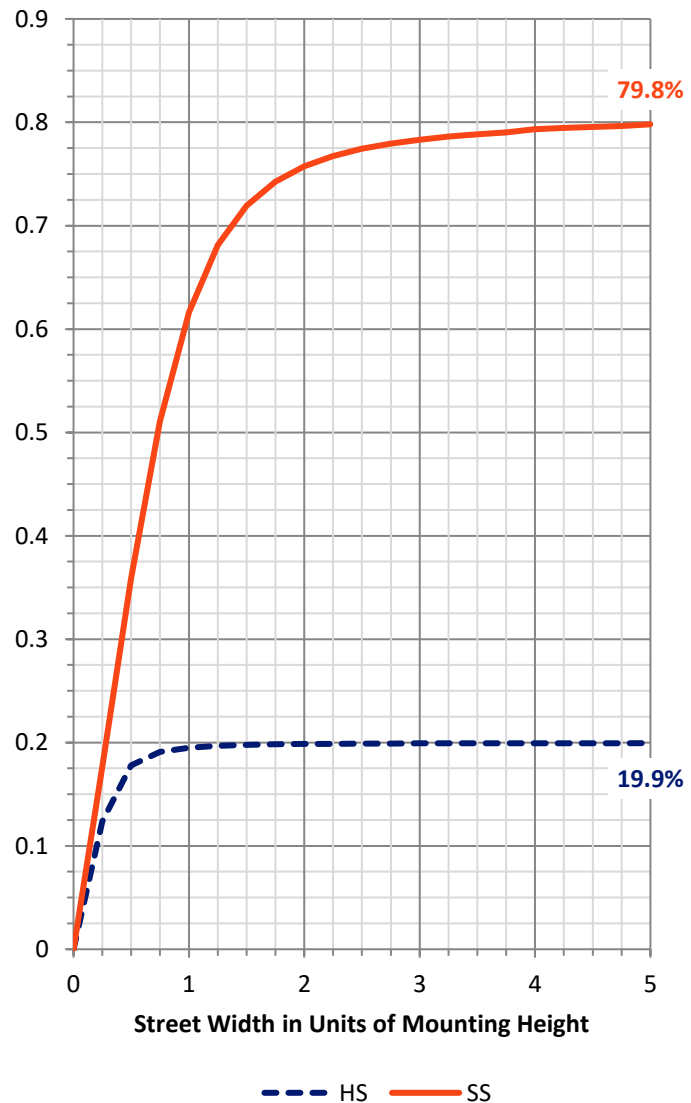
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8288.5	0.0	8288.5
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	32795.3	0.0	32795.3
	% Fixture	79.8	0.0	79.8
Total	Lumens	41083.9	0.0	41083.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	664.0	1.6
10°-20°	2013.4	4.9
20°-30°	3397.2	8.3
30°-40°	5199.3	12.7
40°-50°	7243.3	17.6
50°-60°	8395.1	20.4
60°-70°	8230.1	20.0
70°-80°	5138.3	12.5
80°-90°	803.1	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°	41083.9	100.0
0°-180°	41083.9	100.0

Coefficient of Utilization



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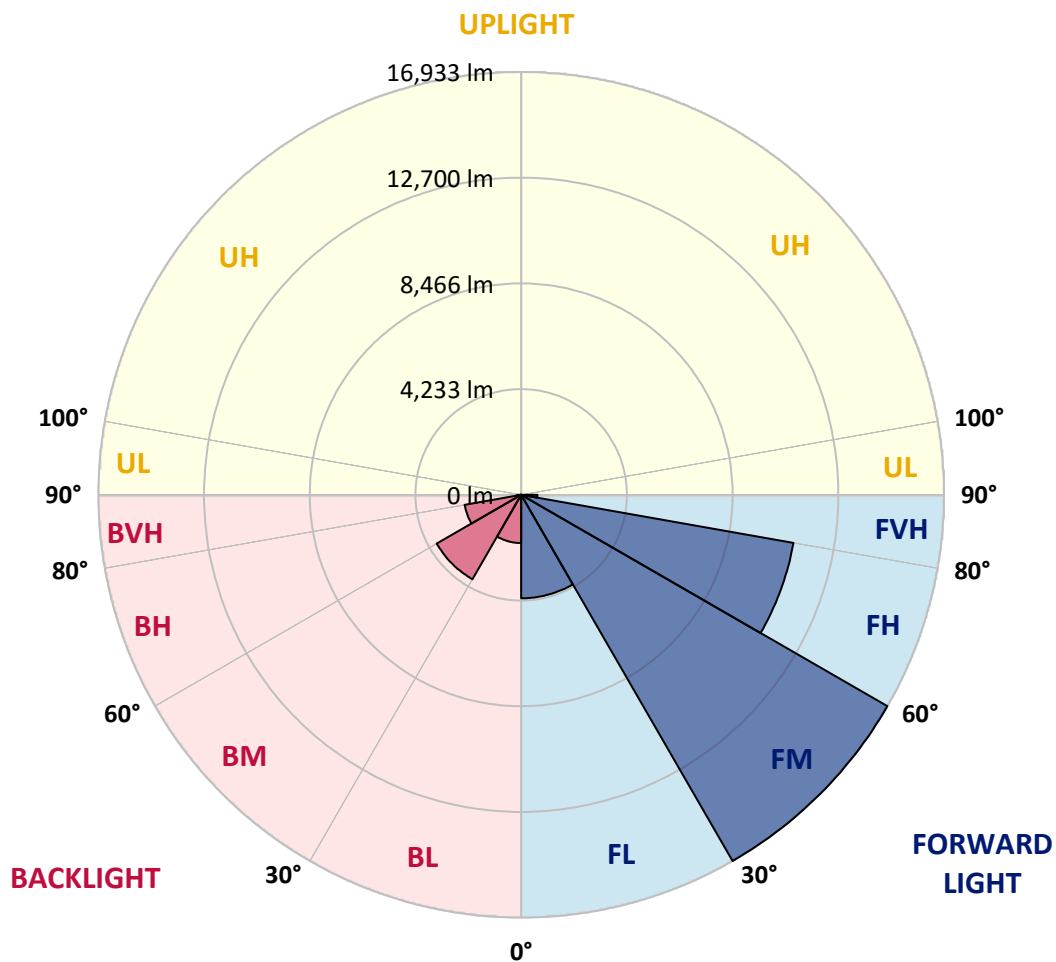
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4142.4	10.1			
FM	(30°-60°)	16932.9	41.2			
FH	(60°-80°)	11070.8	26.9			G4/12000
FVH	(80°-90°)	649.2	1.6			G4/750
BL	(0°-30°)	1932.3	4.7	B3/2500		
BM	(30°-60°)	3904.7	9.5	B3/5000		
BH	(60°-80°)	2297.6	5.6	B3/2500		G3/2500
BVH	(80°-90°)	153.9	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°	6954.0	6954.0	6954.0	6954.0	6954.0	6954.0	6954.0	6954.0	6954.0	6954.0	6954.0
2.5°	7555.5	7535.0	7513.0	7485.9	7463.7	7395.8	7334.6	7217.4	7072.9	7066.1	6948.9
5°	8070.3	8038.0	8012.5	7964.9	7912.3	7791.6	7650.6	7453.5	7247.9	7215.7	7008.4
7.5°	8500.1	8466.2	8437.2	8376.1	8316.6	8168.9	7987.0	7722.0	7467.1	7402.6	7091.7
10°	8875.6	8841.6	8828.0	8761.8	8719.3	8557.8	8331.9	8044.7	7725.4	7626.8	7217.4
12.5°	9271.5	9235.8	9212.0	9142.4	9091.4	8919.8	8719.3	8398.2	8036.3	7930.9	7397.5
15°	9662.3	9629.9	9575.6	9538.3	9478.8	9300.3	9111.7	8777.0	8416.9	8284.4	7638.7
17.5°	10022.4	9995.3	9954.5	9922.1	9872.9	9687.7	9482.2	9198.4	8829.7	8666.6	7915.7
20°	10287.5	10289.2	10272.1	10255.2	10272.1	10121.0	9954.5	9638.4	9259.6	9069.2	8202.8
22.5°	10515.2	10528.7	10550.8	10576.3	10685.1	10610.2	10409.8	10153.2	9747.2	9522.9	8571.5
25°	10627.3	10637.5	10736.0	10902.6	11147.2	11145.5	10958.6	10773.4	10387.7	10154.9	9084.6
27.5°	10693.5	10707.1	10844.8	11179.4	11611.0	11677.2	11600.8	11519.2	11250.8	11018.1	9762.5
30°	10690.2	10708.8	10921.2	11340.8	11976.2	12312.6	12319.4	12620.2	12492.7	12333.1	10905.9
32.5°	10435.2	10442.0	10737.7	11356.1	12251.5	12876.7	13157.1	13945.4	14339.6	14368.4	13017.8
35°	9830.5	9917.1	10358.8	11218.5	12450.3	13428.9	14154.4	15639.4	16685.9	16735.2	15138.1
37.5°	9395.5	9448.2	9951.1	10972.2	12542.0	14004.9	15299.6	17673.0	18818.2	18697.5	16893.2
40°	8919.8	8984.3	9500.8	10642.6	12484.2	14499.3	16466.7	19625.2	20542.7	20354.1	18388.3
42.5°	8393.0	8447.4	8933.4	10154.9	12300.8	14856.1	17593.2	21312.3	22017.4	21786.4	19747.5
45°	7874.8	7910.6	8371.0	9497.4	11947.4	15073.6	18621.1	22831.2	23325.6	23130.2	20999.7
47.5°	7217.4	7259.9	7823.9	8870.5	11300.1	15066.8	19511.4	24181.9	24594.8	24377.3	22116.0
50°	5566.0	5593.1	6838.5	8301.3	10464.2	14767.7	20274.2	25405.2	25794.3	25546.2	23220.3
52.5°	5042.7	5064.7	5450.4	7592.8	9551.8	14147.7	20775.4	26533.3	26885.0	26620.0	24261.7
55°	4792.9	4808.1	4995.1	6179.3	8751.6	13084.0	20996.3	27578.2	27845.0	27501.8	25107.9
57.5°	4439.5	4470.1	4752.1	5292.4	7968.3	11451.3	20680.2	28422.6	28623.1	28286.7	25931.9
60°	4171.0	4189.8	4427.6	4855.7	7021.9	9624.8	19552.1	28993.5	29319.7	29015.6	26706.6
62.5°	3909.4	3916.2	4115.0	4531.3	6199.7	8260.5	17627.2	28957.8	29747.9	29559.2	27382.8
63°	3853.4	3860.2	4062.3	4471.8	6079.1	8034.6	17205.8	28871.1	29776.7	29605.1	27472.9
65°	3615.5	3625.7	3822.7	4200.0	5555.8	7319.4	15340.3	28337.7	29679.8	29674.8	27593.5
67.5°	3260.4	3279.1	3447.3	3770.1	4842.2	6415.5	12463.9	27768.5	28901.8	28962.9	26919.0
70°	2830.6	2844.1	3034.4	3306.3	4074.3	5447.0	9545.0	25948.9	27471.2	27301.3	25355.9
72.5°	2375.2	2399.0	2580.8	2791.5	3379.3	4493.9	6911.5	22844.8	25323.7	25449.4	22734.3
75°	2072.7	2086.4	2242.6	2392.2	2806.7	3576.4	4623.0	16403.9	22391.1	22423.5	19611.6
77.5°	1719.4	1736.4	1897.8	2038.8	2276.7	2692.9	3189.0	8525.6	15921.4	16825.3	15228.2
80°	948.1	1100.9	1367.7	1471.4	1648.0	1636.2	2028.6	4505.7	7045.8	8809.4	10058.1
82.5°	159.7	205.6	552.2	720.4	785.0	689.8	985.4	2480.6	3928.1	4507.4	5413.0
85°	67.9	98.6	288.8	316.1	197.0	191.9	389.1	1298.1	2247.7	2589.2	2789.8
87.5°	8.5	15.3	74.7	98.6	45.9	62.9	78.1	406.0	783.3	900.5	1017.7
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°	6954.0	6954.0	6954.0	6954.0	6954.0	6954.0	6954.0	6954.0	6954.0	6954.0	6954.0
2.5°	6892.8	6853.7	6763.8	6694.1	6643.1	6573.4	6498.7	6444.3	6386.5	6361.1	6371.3
5°	6903.0	6816.4	6624.4	6473.2	6305.0	6181.0	6019.6	5938.0	5849.7	5805.5	5803.8
7.5°	6930.3	6794.3	6491.9	6254.0	6014.5	5820.8	5610.2	5465.7	5387.6	5329.8	5323.0
10°	6998.2	6804.6	6391.6	6068.9	5759.6	5499.7	5243.1	5056.3	4949.2	4889.7	4898.2
12.5°	7120.5	6841.9	6320.3	5917.6	5520.1	5210.9	4883.0	4663.8	4533.0	4459.8	4480.3
15°	7288.7	6923.5	6247.3	5730.8	5263.5	4899.9	4549.9	4301.9	4155.8	4092.9	4113.3
17.5°	7477.3	7042.4	6196.3	5521.8	4993.4	4582.2	4257.7	4014.8	3770.1	3720.8	3720.8
20°	7688.0	7174.9	6187.8	5323.0	4726.6	4279.8	3906.0	3702.1	3347.1	3226.4	3200.9
22.5°	7966.6	7361.7	6177.6	5141.2	4442.9	3967.2	3508.5	3187.3	2726.9	2519.6	2499.2
25°	8350.6	7620.0	6194.6	4991.7	4184.7	3615.5	2961.4	2446.6	2059.2	1799.3	1785.6
27.5°	8865.4	7964.9	6249.0	4852.3	3926.4	3182.2	2293.6	1744.9	1445.8	1213.1	1143.4
30°	9838.9	8510.4	6344.0	4728.3	3625.7	2601.2	1631.1	1180.8	966.7	805.3	769.7
32.5°	11699.4	9879.8	6474.9	4590.7	3255.3	1916.5	1089.0	788.4	615.1	521.6	542.0
35°	13554.6	11587.3	7098.5	4388.5	2767.7	1275.9	727.2	502.9	387.4	384.0	406.0
37.5°	15226.4	13097.6	7941.2	4162.5	2115.2	858.0	436.7	334.7	324.5	353.4	397.6
40°	16612.9	14324.3	8653.0	3846.6	1452.7	525.0	285.4	304.1	288.8	300.7	295.6
42.5°	17900.7	15428.6	9230.7	3488.0	856.3	302.4	248.0	282.0	260.0	249.7	229.4
45°	19059.4	16470.1	9521.2	2923.9	499.5	241.2	226.0	266.8	251.4	232.8	202.2
47.5°	20114.5	17384.2	9711.5	2152.7	287.1	210.7	210.7	239.5	236.1	214.1	197.0
50°	21208.7	18277.9	9692.8	1321.8	242.9	193.6	200.5	200.5	212.4	166.5	151.2
52.5°	22175.4	19081.5	9305.4	749.2	224.3	183.5	181.8	163.1	173.3	129.1	120.6
55°	22960.3	19706.7	8654.7	494.4	212.4	181.8	159.7	141.0	132.5	93.5	96.9
57.5°	23731.7	20301.4	7659.2	390.8	220.9	175.0	146.2	120.6	103.7	73.0	69.6
60°	24475.8	20775.4	6604.0	351.7	232.8	175.0	120.6	102.0	69.6	56.1	49.3
62.5°	24926.1	20879.1	5436.9	317.8	239.5	163.1	108.7	83.2	51.0	37.4	34.0
63°	24958.3	20848.4	5229.5	312.6	241.2	163.1	108.7	79.8	49.3	34.0	30.6
65°	24909.1	20462.7	4420.8	295.6	246.3	156.3	103.7	64.5	39.1	23.7	20.4
67.5°	24085.1	19173.3	3277.4	277.0	236.1	154.6	95.2	52.7	30.6	15.3	11.9
70°	22068.4	17171.9	2190.0	246.3	227.7	151.2	112.1	44.2	25.4	8.5	6.8
72.5°	19251.4	15012.4	1466.3	202.2	198.7	124.0	67.9	37.4	18.7	3.4	0.0
75°	16271.4	12081.6	907.3	154.6	161.4	105.4	54.4	32.3	15.3	0.0	0.0
77.5°	12666.1	8924.9	645.6	98.6	113.8	90.1	45.9	27.1	11.9	0.0	0.0
80°	8641.2	6048.4	467.2	54.4	59.5	59.5	37.4	20.4	6.8	0.0	0.0
82.5°	5012.1	3389.6	237.8	27.1	25.4	30.6	17.0	10.2	1.7	0.0	0.0
85°	2444.9	1501.9	40.8	15.3	13.6	13.6	6.8	0.0	0.0	0.0	0.0
87.5°	829.2	389.1	5.1	6.8	5.1	1.7	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)