

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: P285838

Luminaire Tested: **USSL-XL-C069-D-U-T4-AP-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-9)
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-7050
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K LEDS AND TYPE IV OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44340.9 lumens
Efficiency: N/A
Efficacy: 155.6 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B4 - 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

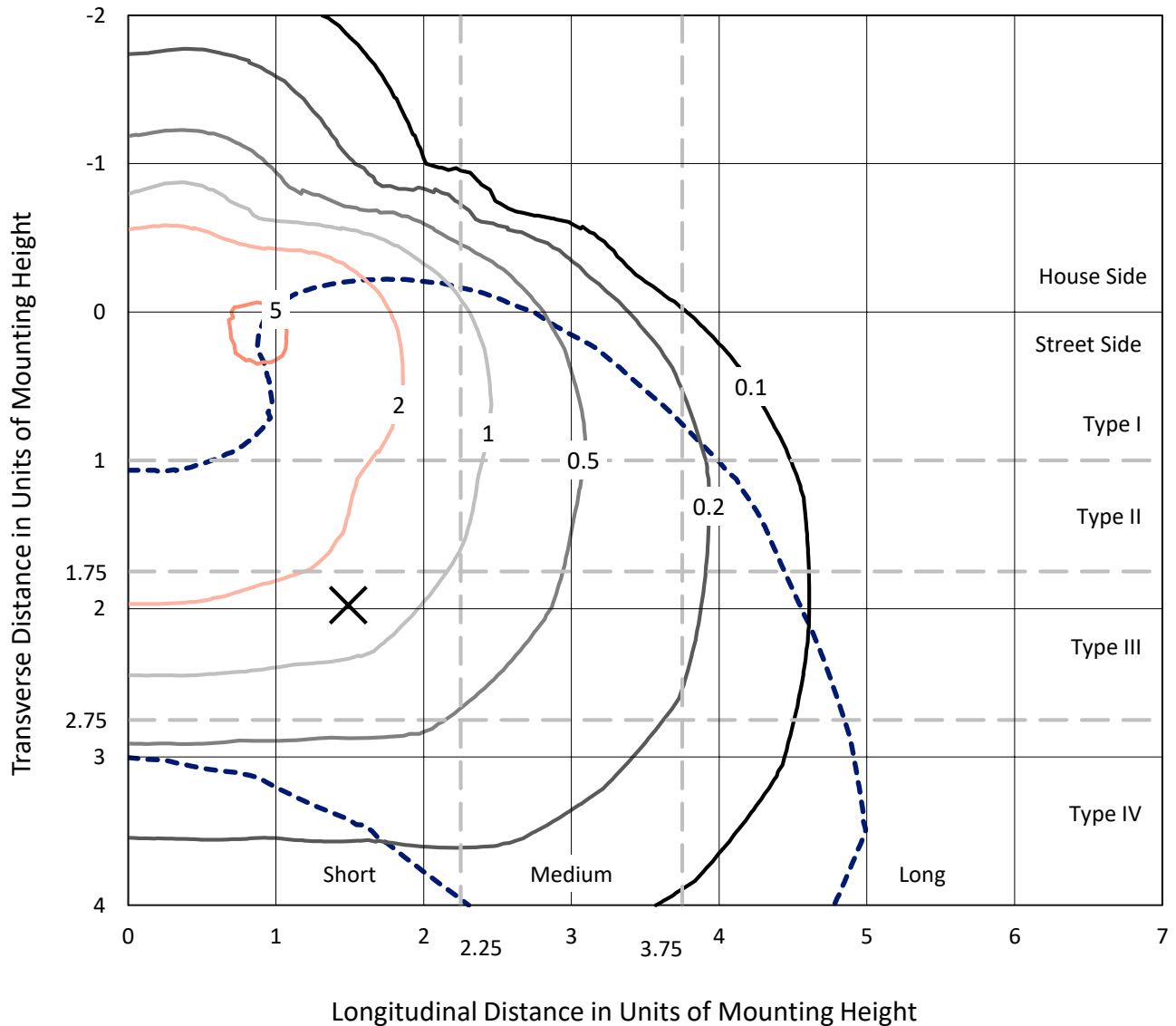


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

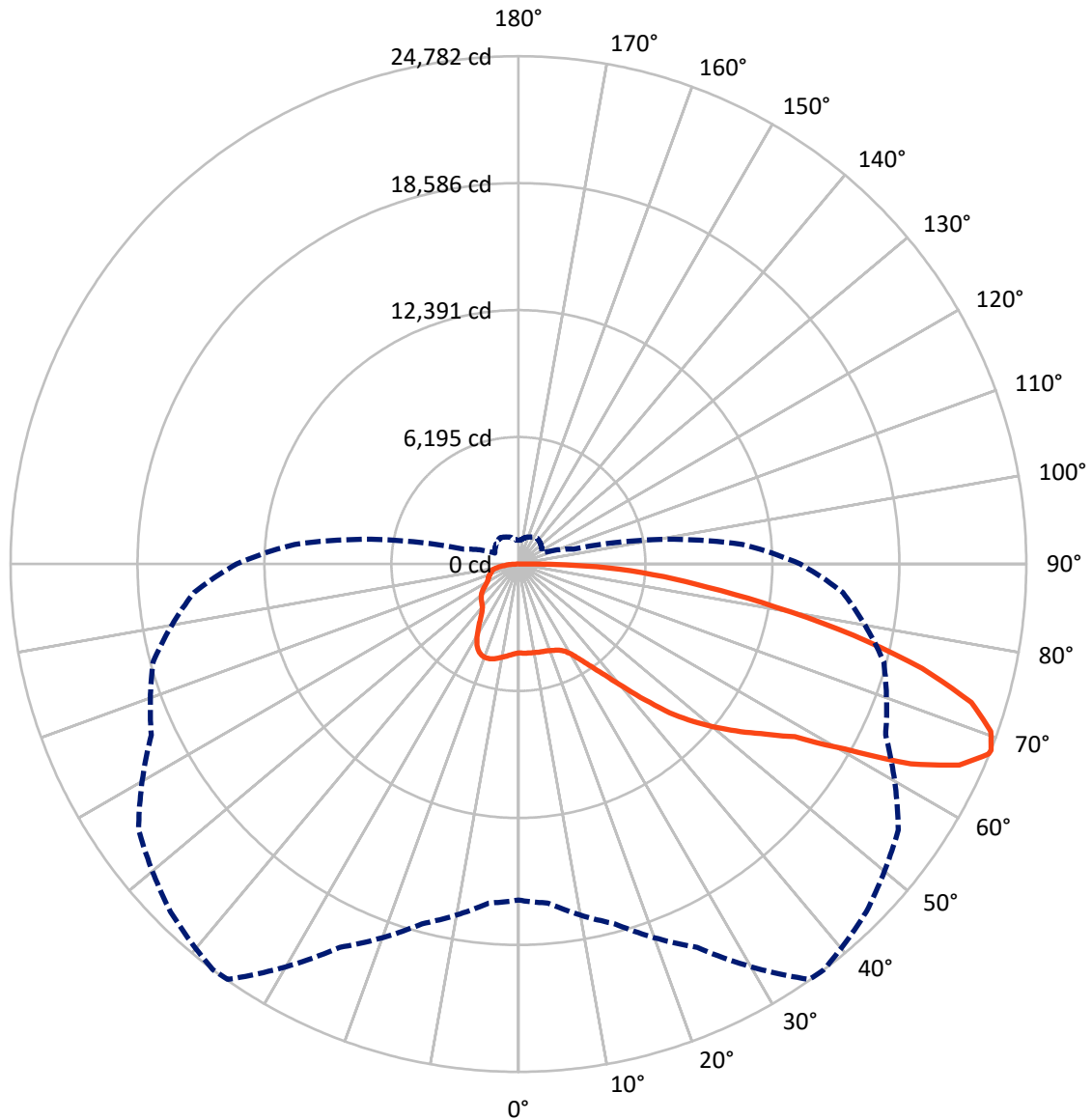


Based on 30 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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



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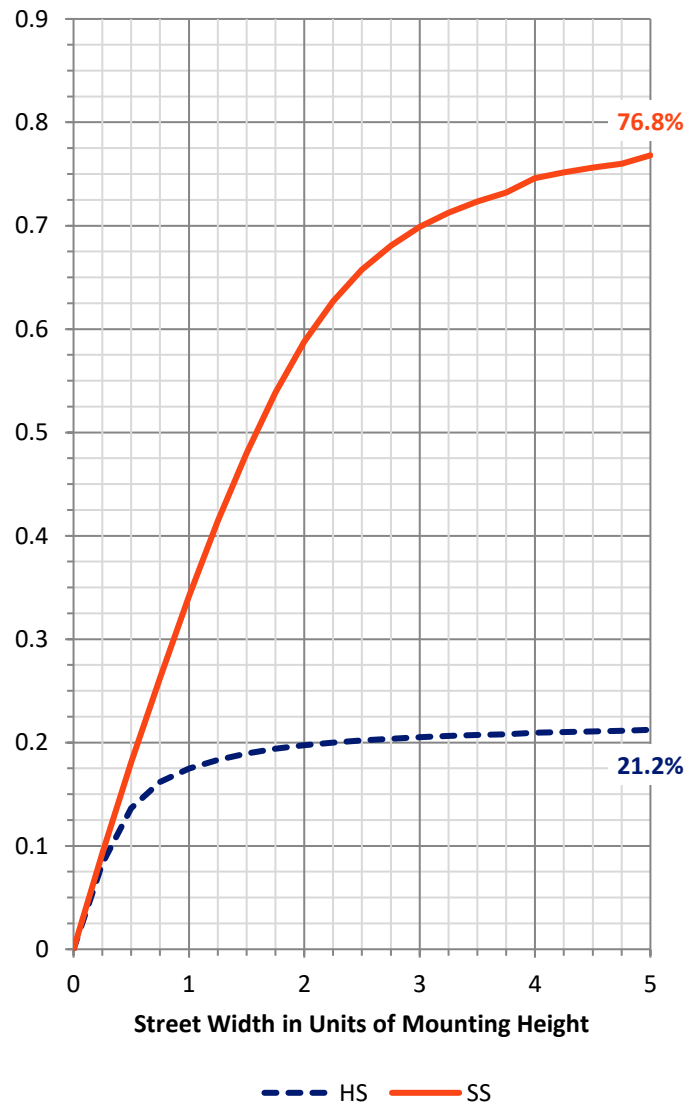
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9574.5	0.0	9574.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	34766.4	0.0	34766.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	44340.9	0.0	44340.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.1	0.9
10°-20°	1308.8	3.0
20°-30°	2235.5	5.0
30°-40°	3561.4	8.0
40°-50°	6176.9	13.9
50°-60°	8953.7	20.2
60°-70°	11291.5	25.5
70°-80°	8366.9	18.9
80°-90°	2025.2	4.6
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°	44340.9	100.0
0°-180°	44340.9	100.0

Coefficient of Utilization



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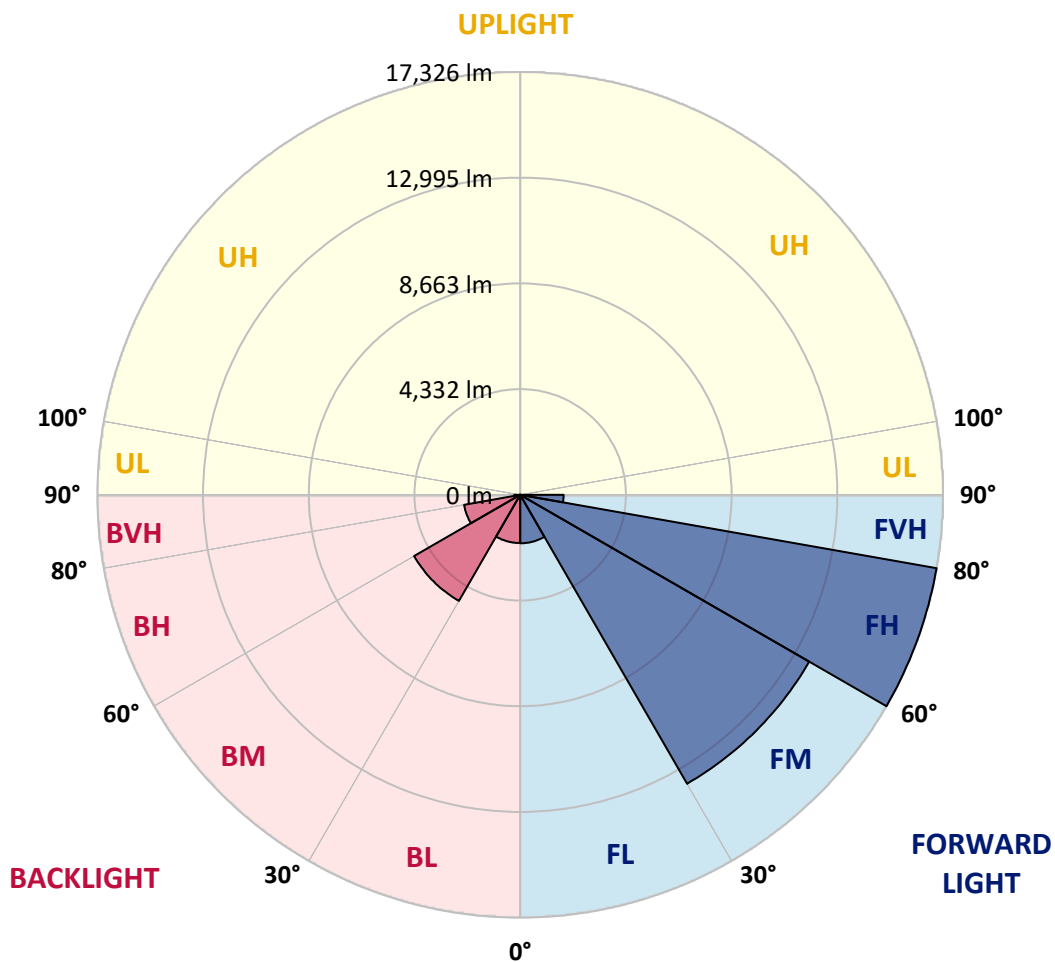
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1987.8	4.5			
FM	(30°-60°)	13672.8	30.8			
FH	(60°-80°)	17326.1	39.1			G5
FVH	(80°-90°)	1779.7	4.0			G5
BL	(0°-30°)	1977.5	4.5	B3/2500		
BM	(30°-60°)	5019.2	11.3	B4/8500		
BH	(60°-80°)	2332.3	5.3	B3/2500		G3/2500
BVH	(80°-90°)	245.5	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	4332.4	4332.4	4332.4	4332.4	4332.4	4332.4	4332.4	4332.4	4332.4	4332.4	4332.4
2.5°	4334.1	4346.0	4349.4	4342.6	4349.4	4356.2	4340.9	4339.2	4332.4	4305.3	4308.7
5°	4335.8	4351.1	4352.8	4347.7	4359.7	4366.5	4359.7	4352.8	4346.0	4307.0	4315.5
7.5°	4335.8	4347.7	4351.1	4347.7	4364.8	4376.6	4376.6	4381.7	4381.7	4337.5	4344.3
10°	4320.6	4330.8	4335.8	4344.3	4373.3	4390.2	4400.4	4424.2	4437.8	4407.2	4408.9
12.5°	4250.9	4259.4	4276.4	4325.7	4393.6	4414.1	4442.9	4485.4	4519.3	4519.3	4522.7
15°	4196.6	4205.0	4237.3	4303.6	4407.2	4434.4	4490.5	4561.8	4624.7	4658.7	4685.8
17.5°	4210.1	4220.3	4267.9	4324.0	4427.6	4454.8	4534.7	4638.2	4741.9	4815.0	4869.3
20°	4252.6	4259.4	4313.8	4378.3	4488.8	4507.4	4585.7	4713.1	4857.4	4978.0	5066.4
22.5°	4373.3	4369.9	4414.1	4439.5	4553.3	4570.3	4660.4	4791.2	4978.0	5159.9	5289.0
25°	4473.5	4488.8	4524.4	4544.9	4638.2	4653.6	4765.7	4910.1	5125.9	5360.3	5567.7
27.5°	4583.9	4597.5	4633.1	4679.0	4809.8	4818.4	4896.5	5074.9	5314.4	5601.6	5932.9
30°	4833.7	4832.0	4867.6	4916.9	5093.6	5108.9	5182.0	5365.4	5588.0	5946.5	6345.7
32.5°	5265.2	5261.8	5266.9	5334.9	5526.8	5562.6	5655.9	5899.0	6177.5	6524.2	6967.6
35°	6150.4	6114.7	6046.7	5992.4	6101.1	6141.9	6345.7	6646.5	7144.3	7825.6	8374.4
37.5°	7613.3	7557.2	7327.8	7016.9	6891.2	6886.1	7028.7	7485.8	8260.5	9626.5	10122.7
40°	9014.9	9016.6	8705.7	8284.3	7891.9	7871.5	7789.9	8355.7	9468.5	11317.1	11549.8
42.5°	10343.6	10335.0	9973.1	9587.4	9118.5	9057.4	8819.5	9254.4	10674.8	12708.5	12754.4
45°	11541.4	11514.1	11125.0	10877.0	10474.4	10352.0	10036.0	10173.7	11804.6	13824.8	13663.4
47.5°	12698.3	12671.1	12185.2	11945.7	11592.3	11490.4	11155.7	11216.8	12885.2	14754.1	14399.1
50°	13892.7	13884.3	13180.8	12948.1	12572.6	12530.1	12327.9	12372.1	14013.4	15527.2	15083.8
52.5°	15308.0	15088.8	14298.8	13853.6	13587.0	13585.3	13359.3	13473.1	15260.4	16217.0	15559.4
55°	16826.9	16550.0	15741.2	15100.7	14642.0	14648.8	14297.1	14480.6	16356.3	16833.8	16014.8
57.5°	17910.8	17853.1	17611.8	16971.3	16023.3	15911.1	15370.9	15515.2	17317.9	17472.6	16342.7
60°	18921.8	19168.2	19329.5	19125.7	18648.2	18323.8	16825.2	16609.5	18165.7	18034.9	16514.3
62.5°	19558.9	19686.4	20439.0	20719.3	21468.6	21494.0	19701.6	17934.7	18887.8	18388.3	16590.7
65°	18857.2	19045.8	20292.8	21388.8	23526.1	23648.4	22892.4	20145.1	19463.8	18510.6	16446.4
67.5°	16900.0	17097.0	18595.6	20843.4	24664.4	24747.7	23962.7	22438.7	19750.9	18485.2	16023.3
68°	16398.8	16609.5	18172.5	20637.7	24742.5	24781.6	24005.1	22629.0	19769.6	18456.3	15885.7
70°	14324.3	14531.5	16115.0	19351.7	24433.3	24458.8	23736.8	22829.5	19672.7	18208.2	14980.1
72.5°	11252.5	11461.4	12710.2	16415.7	22880.5	23103.1	22734.3	22258.6	19263.3	17241.5	12844.5
75°	7973.4	8187.5	9487.3	12847.9	19725.4	20343.8	21079.5	21164.5	17730.7	14806.8	9568.8
77.5°	5622.0	5797.0	6921.8	9604.5	15919.7	16719.9	18252.3	18378.1	14849.3	11298.3	5047.8
80°	3649.4	3799.0	4806.4	7039.0	12034.0	12725.5	14409.2	13889.4	10552.5	6143.6	878.3
82.5°	2203.6	2315.8	3061.6	4869.3	8806.0	9266.4	9952.8	8338.7	4896.5	868.2	307.5
85°	1264.0	1340.6	1891.0	3127.9	6204.8	6597.2	6692.4	4186.4	920.8	239.5	173.3
87.5°	647.3	686.4	1014.3	1921.6	3666.4	3834.6	3357.2	1498.5	183.5	107.0	86.7
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°	4332.4	4332.4	4332.4	4332.4	4332.4	4332.4	4332.4	4332.4	4332.4	4332.4	4332.4
2.5°	4291.6	4303.6	4312.1	4340.9	4371.6	4386.8	4371.6	4395.3	4403.8	4397.0	4386.8
5°	4301.9	4320.6	4334.1	4391.9	4425.9	4451.4	4434.4	4468.3	4480.3	4466.6	4466.6
7.5°	4330.8	4356.2	4378.3	4454.8	4493.9	4527.9	4517.6	4541.5	4551.6	4534.7	4544.9
10°	4407.2	4432.7	4461.5	4556.7	4582.2	4614.5	4595.8	4614.5	4617.9	4606.0	4614.5
12.5°	4539.8	4556.7	4612.8	4709.7	4713.1	4721.5	4682.4	4646.8	4631.4	4609.4	4624.7
15°	4709.7	4740.2	4816.7	4898.2	4876.2	4857.4	4760.6	4645.1	4572.0	4517.6	4514.2
17.5°	4898.2	4952.6	5047.8	5100.5	5049.5	4964.5	4801.3	4606.0	4429.3	4332.4	4301.9
20°	5091.9	5176.9	5282.2	5292.4	5205.7	5042.7	4794.6	4505.7	4213.5	4033.4	3989.3
22.5°	5328.1	5438.5	5533.6	5482.7	5309.4	5069.8	4731.7	4329.1	3928.1	3654.5	3613.7
25°	5640.7	5749.4	5766.4	5616.9	5348.5	5018.8	4587.4	4065.7	3557.7	3218.0	3185.6
27.5°	6017.9	6075.7	5965.2	5686.6	5300.9	4865.9	4340.9	3700.4	3144.8	2849.2	2799.9
30°	6435.8	6415.5	6111.3	5688.3	5161.6	4606.0	3967.2	3285.9	2818.6	2563.8	2516.2
32.5°	6965.9	6831.7	6259.1	5611.9	4932.2	4256.0	3527.1	2954.6	2594.4	2334.4	2288.5
35°	8019.3	7611.6	6459.6	5491.1	4628.1	3836.3	3141.4	2715.0	2402.4	2103.4	2060.9
37.5°	9621.5	8777.0	6821.5	5358.6	4289.9	3406.5	2845.8	2528.1	2251.2	1931.8	1865.5
40°	11026.6	10064.9	7399.2	5234.6	3945.1	3080.3	2675.9	2438.1	2167.9	1845.1	1777.1
42.5°	12105.4	11096.2	8060.1	5086.8	3584.9	2839.0	2604.6	2426.2	2157.7	1845.1	1782.2
45°	12977.0	11947.4	8647.9	4925.4	3236.6	2648.8	2540.1	2404.1	2137.4	1834.9	1775.4
47.5°	13665.1	12582.8	9111.7	4740.2	2874.7	2519.6	2473.7	2327.6	2084.7	1804.4	1744.9
50°	14261.4	13038.1	9371.7	4522.7	2553.6	2417.6	2380.3	2205.3	1979.4	1714.3	1675.2
52.5°	14677.7	13408.5	9470.2	4432.7	2324.3	2302.1	2252.9	2081.3	1865.5	1607.2	1563.0
55°	14990.3	13598.8	9388.7	4227.1	2094.9	2123.7	2101.7	1986.1	1785.6	1541.0	1496.8
57.5°	15150.0	13661.7	9155.9	3452.4	1877.4	1911.4	1926.7	1933.5	1773.7	1559.6	1518.9
60°	15206.1	13563.1	8647.9	2465.2	1644.6	1712.6	1797.6	1823.0	1721.1	1488.3	1454.4
62.5°	15121.2	13306.6	7652.3	1704.1	1468.0	1588.6	1700.7	1693.9	1585.2	1383.0	1337.1
65°	14789.8	12678.0	5819.1	1374.5	1408.5	1532.5	1656.5	1573.3	1468.0	1281.0	1257.3
67.5°	13987.9	11354.4	3263.8	1269.1	1389.7	1500.2	1580.1	1479.8	1362.6	1185.9	1175.7
68°	13750.0	10965.4	2786.4	1262.3	1386.3	1490.0	1559.6	1456.1	1342.3	1170.7	1163.8
70°	12363.6	8960.5	1257.3	1240.3	1366.0	1452.7	1503.6	1389.7	1267.4	1118.0	1107.7
72.5°	9553.5	5548.9	844.4	1179.1	1315.0	1396.6	1428.9	1321.8	1219.8	1053.3	1039.8
75°	5662.7	1525.7	800.2	1073.8	1228.4	1342.3	1376.2	1269.1	1148.5	956.6	934.4
77.5°	1393.1	550.5	774.8	954.9	1138.3	1252.2	1306.5	1233.5	1087.4	861.4	839.3
80°	423.0	438.4	737.4	825.7	1024.5	1118.0	1150.2	1150.2	1005.8	606.6	638.8
82.5°	278.6	351.7	628.6	620.1	813.8	925.9	864.8	868.2	790.0	270.2	316.1
85°	175.0	287.1	424.7	406.0	518.2	567.5	615.1	632.0	555.6	78.1	5.1
87.5°	90.1	122.3	149.6	159.7	205.6	293.9	394.2	387.4	285.4	69.6	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)