

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: P285828

Luminaire Tested: **USSL-XL-C069-D-U-T4-AP-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285828
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-7030
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K LEDS AND TYPE IV OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42759.5 lumens
Efficiency: N/A
Efficacy: 150.0 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

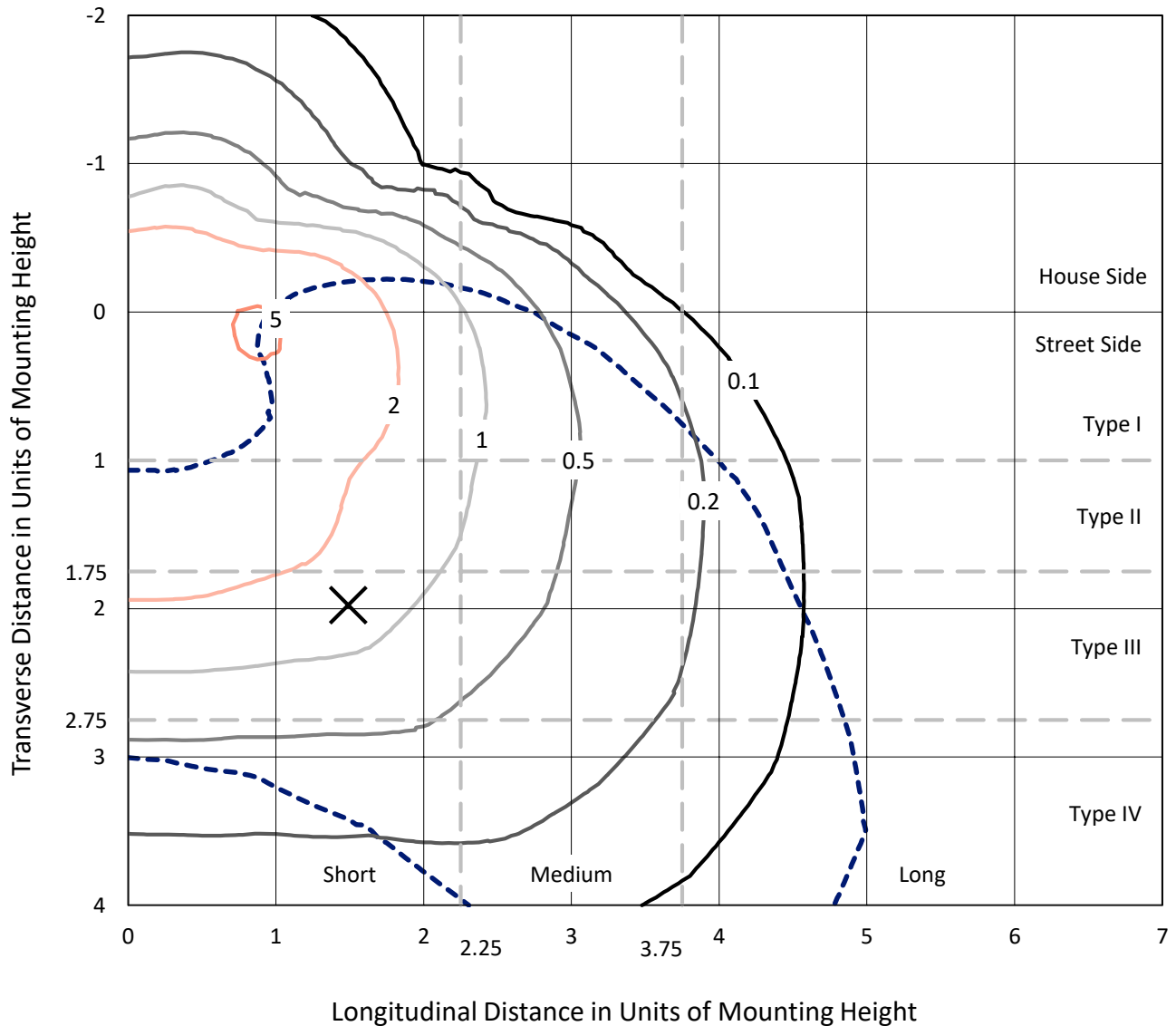


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

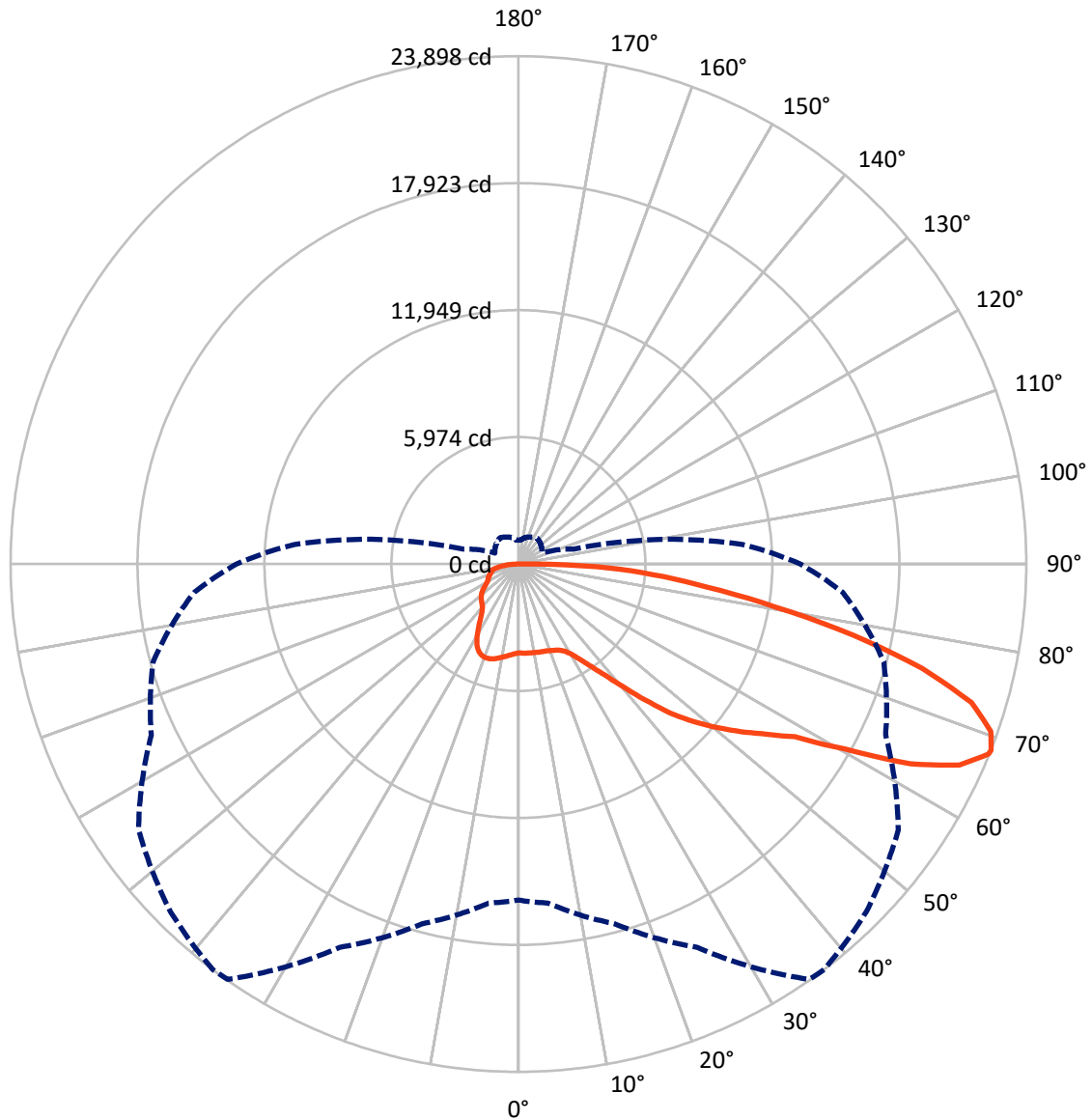


Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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



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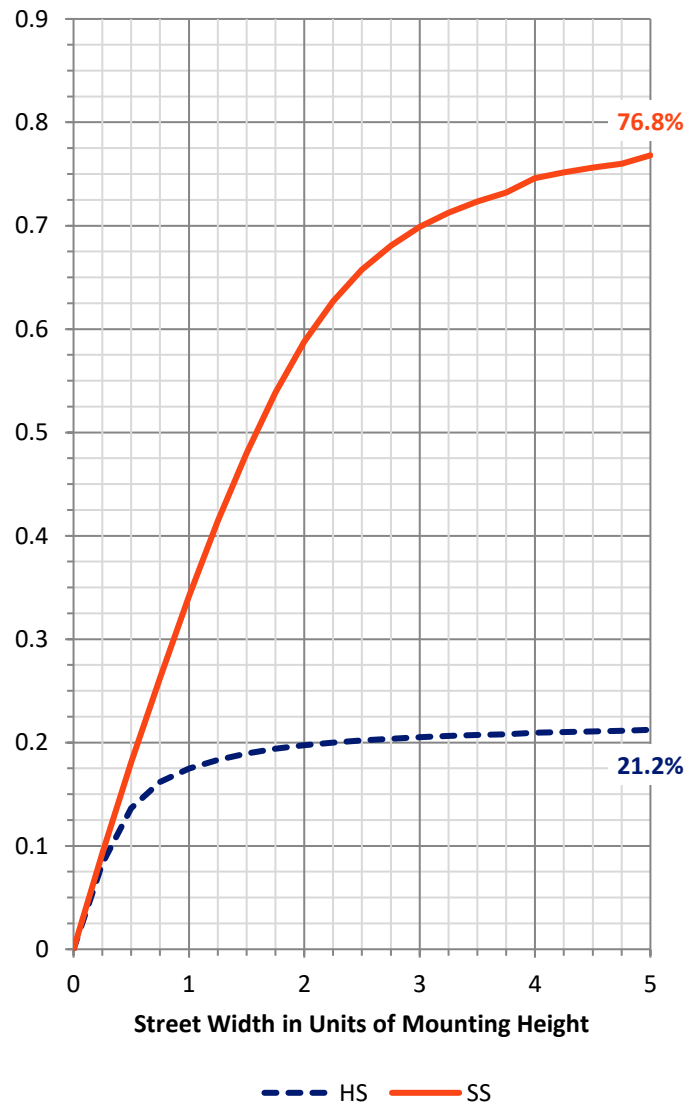
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9233.0	0.0	9233.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	33526.5	0.0	33526.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	42759.5	0.0	42759.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.0	0.9
10°-20°	1262.1	3.0
20°-30°	2155.7	5.0
30°-40°	3434.4	8.0
40°-50°	5956.6	13.9
50°-60°	8634.4	20.2
60°-70°	10888.8	25.5
70°-80°	8068.5	18.9
80°-90°	1953.0	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°	42759.5	100.0
0°-180°	42759.5	100.0



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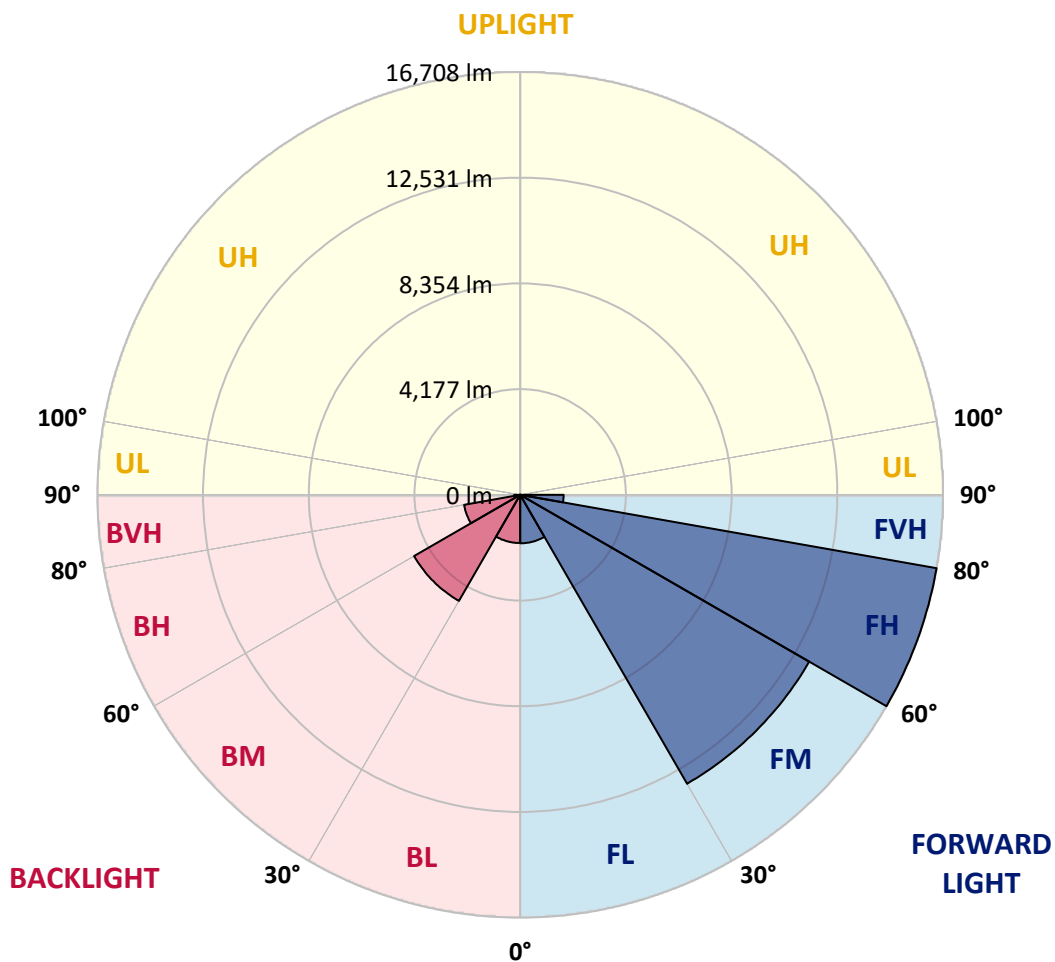
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1916.9	4.5			
FM	(30°-60°)	13185.2	30.8			
FH	(60°-80°)	16708.2	39.1			G5
FVH	(80°-90°)	1716.2	4.0			G5
BL	(0°-30°)	1907.0	4.5	B3/2500		
BM	(30°-60°)	4840.2	11.3	B3/5000		
BH	(60°-80°)	2249.2	5.3	B3/2500		G3/2500
BVH	(80°-90°)	236.7	0.6			G3/500
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°	4177.9	4177.9	4177.9	4177.9	4177.9	4177.9	4177.9	4177.9	4177.9	4177.9	4177.9
2.5°	4179.6	4191.1	4194.3	4187.8	4194.3	4200.9	4186.2	4184.5	4177.9	4151.7	4155.0
5°	4181.2	4195.9	4197.6	4192.6	4204.2	4210.7	4204.2	4197.6	4191.1	4153.3	4161.6
7.5°	4181.2	4192.6	4195.9	4192.6	4209.1	4220.5	4220.5	4225.5	4225.5	4182.9	4189.4
10°	4166.5	4176.3	4181.2	4189.4	4217.2	4233.7	4243.5	4266.4	4279.6	4250.0	4251.7
12.5°	4099.3	4107.5	4123.9	4171.3	4237.0	4256.6	4284.4	4325.5	4358.2	4358.2	4361.5
15°	4046.9	4055.1	4086.2	4150.0	4250.0	4276.3	4330.3	4399.1	4459.7	4492.5	4518.8
17.5°	4059.9	4069.8	4115.7	4169.8	4269.7	4295.9	4372.9	4472.9	4572.8	4643.2	4695.7
20°	4101.0	4107.5	4159.9	4222.2	4328.6	4346.6	4422.1	4545.0	4684.2	4800.5	4885.7
22.5°	4217.2	4214.0	4256.6	4281.1	4391.0	4407.3	4494.2	4620.3	4800.5	4975.8	5100.3
25°	4313.9	4328.6	4363.1	4382.8	4472.9	4487.6	4595.7	4735.0	4943.1	5169.1	5369.0
27.5°	4420.4	4433.6	4467.9	4512.2	4638.3	4646.5	4721.9	4893.9	5124.9	5401.9	5721.3
30°	4661.2	4659.6	4694.1	4741.6	4912.0	4926.7	4997.1	5174.1	5388.7	5734.5	6119.4
32.5°	5077.5	5074.2	5079.0	5144.6	5329.7	5364.2	5454.2	5688.6	5957.3	6291.5	6719.1
35°	5931.0	5896.6	5831.1	5778.7	5883.5	5922.8	6119.4	6409.4	6889.5	7546.5	8075.7
37.5°	7341.7	7287.7	7066.5	6766.6	6645.4	6640.5	6778.1	7218.9	7966.0	9283.2	9761.7
40°	8693.4	8695.0	8395.3	7988.9	7610.4	7590.8	7512.1	8057.7	9130.8	10913.5	11137.9
42.5°	9974.6	9966.5	9617.4	9245.5	8793.4	8734.3	8505.0	8924.5	10294.2	12255.3	12299.5
45°	11129.7	11103.5	10728.3	10489.1	10100.7	9982.8	9678.1	9810.8	11383.6	13331.7	13176.0
47.5°	12245.4	12219.3	11750.7	11519.6	11178.9	11080.5	10757.8	10816.8	12425.7	14228.0	13885.5
50°	13397.2	13389.1	12710.7	12486.4	12124.2	12083.3	11888.3	11930.9	13513.6	14973.4	14545.7
52.5°	14762.1	14550.7	13788.9	13359.6	13102.4	13100.7	12882.8	12992.6	14716.2	15638.6	15004.6
55°	16226.8	15959.8	15179.9	14562.2	14119.8	14126.3	13787.2	13964.2	15773.0	16233.3	15443.6
57.5°	17272.1	17216.4	16983.7	16366.0	15451.9	15343.7	14822.7	14962.0	16700.3	16849.4	15759.9
60°	18246.9	18484.6	18640.1	18443.5	17983.2	17670.2	16225.2	16017.1	17517.8	17391.7	15925.3
62.5°	18861.3	18984.3	19710.0	19980.4	20702.9	20727.5	18999.0	17295.0	18214.2	17732.6	15999.1
65°	18184.7	18366.6	19569.1	20626.0	22687.1	22805.0	22075.9	19426.6	18769.7	17850.4	15859.8
67.5°	16297.2	16487.3	17932.3	20100.0	23784.8	23865.0	23108.2	21638.5	19046.5	17825.9	15451.9
68°	15813.9	16017.1	17524.4	19901.7	23860.2	23897.9	23149.1	21822.0	19064.5	17798.1	15319.2
70°	13813.5	14013.4	15540.4	18661.4	23562.0	23586.5	22890.2	22015.3	18971.2	17558.8	14445.8
72.5°	10851.2	11052.7	12256.9	15830.3	22064.5	22279.1	21923.5	21464.8	18576.2	16626.5	12386.4
75°	7689.0	7895.5	9148.8	12389.6	19021.9	19618.3	20327.7	20409.6	17098.4	14278.8	9227.5
77.5°	5421.5	5590.2	6674.8	9261.9	15351.9	16123.6	17601.4	17722.7	14319.7	10895.5	4867.7
80°	3519.3	3663.4	4635.0	6787.9	11604.8	12271.7	13895.4	13394.0	10176.2	5924.5	847.1
82.5°	2125.0	2233.1	2952.5	4695.7	8491.9	8935.9	9597.8	8041.4	4721.9	837.2	296.6
85°	1219.0	1292.7	1823.6	3016.3	5983.5	6361.9	6453.7	4037.1	888.0	231.1	167.1
87.5°	624.3	661.9	978.2	1853.0	3535.7	3697.9	3237.5	1445.1	176.9	103.2	83.5
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°	4177.9	4177.9	4177.9	4177.9	4177.9	4177.9	4177.9	4177.9	4177.9	4177.9	4177.9
2.5°	4138.6	4150.0	4158.3	4186.2	4215.6	4230.4	4215.6	4238.5	4246.8	4240.2	4230.4
5°	4148.4	4166.5	4179.6	4235.3	4268.0	4292.6	4276.3	4309.0	4320.5	4307.3	4307.3
7.5°	4176.3	4200.9	4222.2	4295.9	4333.6	4366.4	4356.5	4379.5	4389.3	4372.9	4382.8
10°	4250.0	4274.6	4302.5	4394.2	4418.8	4449.9	4431.9	4449.9	4453.2	4441.7	4449.9
12.5°	4377.8	4394.2	4448.3	4541.7	4545.0	4553.1	4515.5	4481.0	4466.3	4445.0	4459.7
15°	4541.7	4571.1	4644.9	4723.6	4702.2	4684.2	4590.9	4479.5	4409.0	4356.5	4353.2
17.5°	4723.6	4775.9	4867.7	4918.5	4869.4	4787.5	4630.2	4441.7	4271.3	4177.9	4148.4
20°	4910.3	4992.2	5093.8	5103.6	5020.1	4862.8	4623.6	4345.1	4063.2	3889.6	3847.0
22.5°	5138.1	5244.6	5336.3	5287.1	5120.1	4889.0	4563.0	4174.6	3788.0	3524.2	3484.8
25°	5439.5	5544.3	5560.8	5416.6	5157.7	4839.8	4423.7	3920.7	3430.8	3103.2	3072.0
27.5°	5803.3	5858.9	5752.5	5483.7	5111.8	4692.4	4186.2	3568.5	3032.7	2747.6	2700.1
30°	6206.2	6186.6	5893.4	5485.4	4977.5	4441.7	3825.7	3168.7	2718.1	2472.3	2426.5
32.5°	6717.4	6588.0	6035.9	5411.6	4756.3	4104.3	3401.3	2849.2	2501.9	2251.1	2206.9
35°	7733.2	7340.0	6229.2	5295.4	4463.0	3699.5	3029.4	2618.2	2316.7	2028.3	1987.4
37.5°	9278.3	8464.0	6578.2	5167.5	4137.0	3285.1	2744.3	2438.0	2170.9	1862.9	1799.0
40°	10633.2	9705.9	7135.2	5048.0	3804.4	2970.5	2580.5	2351.1	2090.7	1779.4	1713.8
42.5°	11673.6	10700.4	7772.6	4905.4	3457.1	2737.8	2511.6	2339.6	2080.8	1779.4	1718.7
45°	12514.1	11521.3	8339.5	4749.7	3121.2	2554.3	2449.4	2318.3	2061.1	1769.5	1712.2
47.5°	13177.7	12134.1	8786.8	4571.1	2772.2	2429.7	2385.5	2244.7	2010.3	1740.0	1682.7
50°	13752.8	12573.2	9037.4	4361.5	2462.6	2331.5	2295.4	2126.7	1908.8	1653.1	1615.5
52.5°	14154.2	12930.4	9132.5	4274.6	2241.4	2220.1	2172.6	2007.0	1799.0	1549.9	1507.3
55°	14455.7	13113.8	9053.9	4076.4	2020.2	2048.0	2026.7	1915.3	1722.0	1486.1	1443.5
57.5°	14609.7	13174.5	8829.4	3329.3	1810.4	1843.2	1858.0	1864.5	1710.5	1504.1	1464.8
60°	14663.7	13079.4	8339.5	2377.4	1585.9	1651.5	1733.5	1758.1	1659.7	1435.2	1402.5
62.5°	14581.8	12832.0	7379.3	1643.4	1415.6	1531.9	1640.1	1633.5	1528.6	1333.7	1289.5
65°	14262.3	12225.8	5611.5	1325.5	1358.3	1477.8	1597.5	1517.1	1415.6	1235.3	1212.4
67.5°	13489.0	10949.5	3147.4	1223.9	1340.2	1446.8	1523.7	1427.0	1314.0	1143.6	1133.8
68°	13259.7	10574.3	2687.0	1217.3	1337.0	1436.9	1504.1	1404.2	1294.3	1128.9	1122.3
70°	11922.7	8640.9	1212.4	1196.0	1317.2	1400.9	1449.9	1340.2	1222.3	1078.0	1068.3
72.5°	9212.8	5351.0	814.3	1137.1	1268.2	1346.8	1377.9	1274.6	1176.4	1015.8	1002.7
75°	5460.8	1471.2	771.7	1035.5	1184.5	1294.3	1327.1	1223.9	1107.6	922.4	901.1
77.5°	1343.5	530.8	747.1	920.7	1097.7	1207.5	1259.9	1189.5	1048.6	830.6	809.3
80°	408.0	422.7	711.1	796.3	987.9	1078.0	1109.2	1109.2	969.9	585.0	616.0
82.5°	268.7	339.2	606.3	598.0	784.7	893.0	833.9	837.2	761.9	260.5	304.7
85°	168.7	276.8	409.7	391.5	499.7	547.2	593.1	609.4	535.8	75.4	4.9
87.5°	86.8	118.0	144.1	154.0	198.2	283.4	380.1	373.5	275.3	67.2	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)