

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: P285839

Luminaire Tested: **USSL-XL-C06-D-U-T4-AP-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285839
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-C06-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: 52413.1 lumens
Efficiency: N/A
Efficacy: 151.5 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

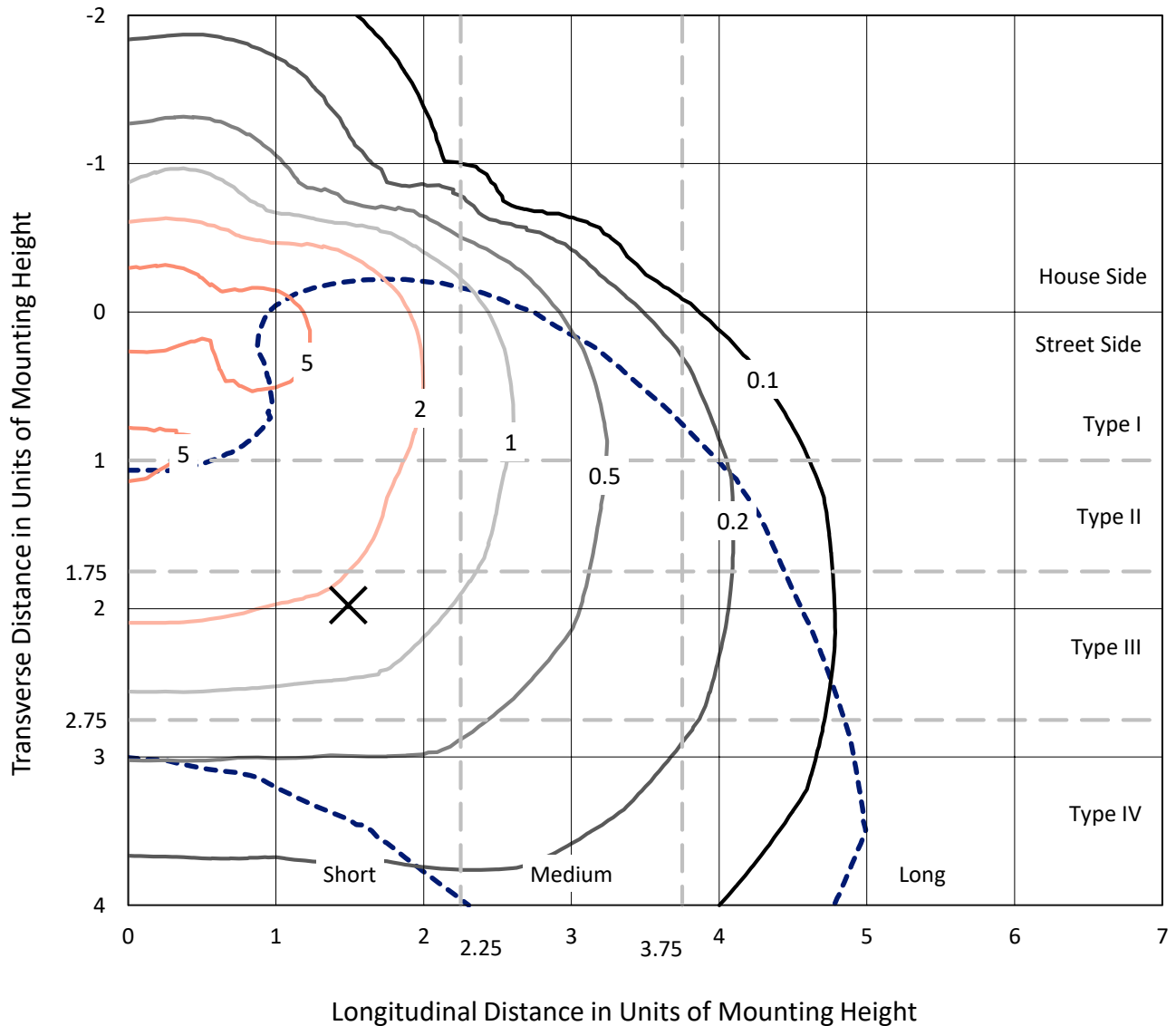
Input Watts (W): 346
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

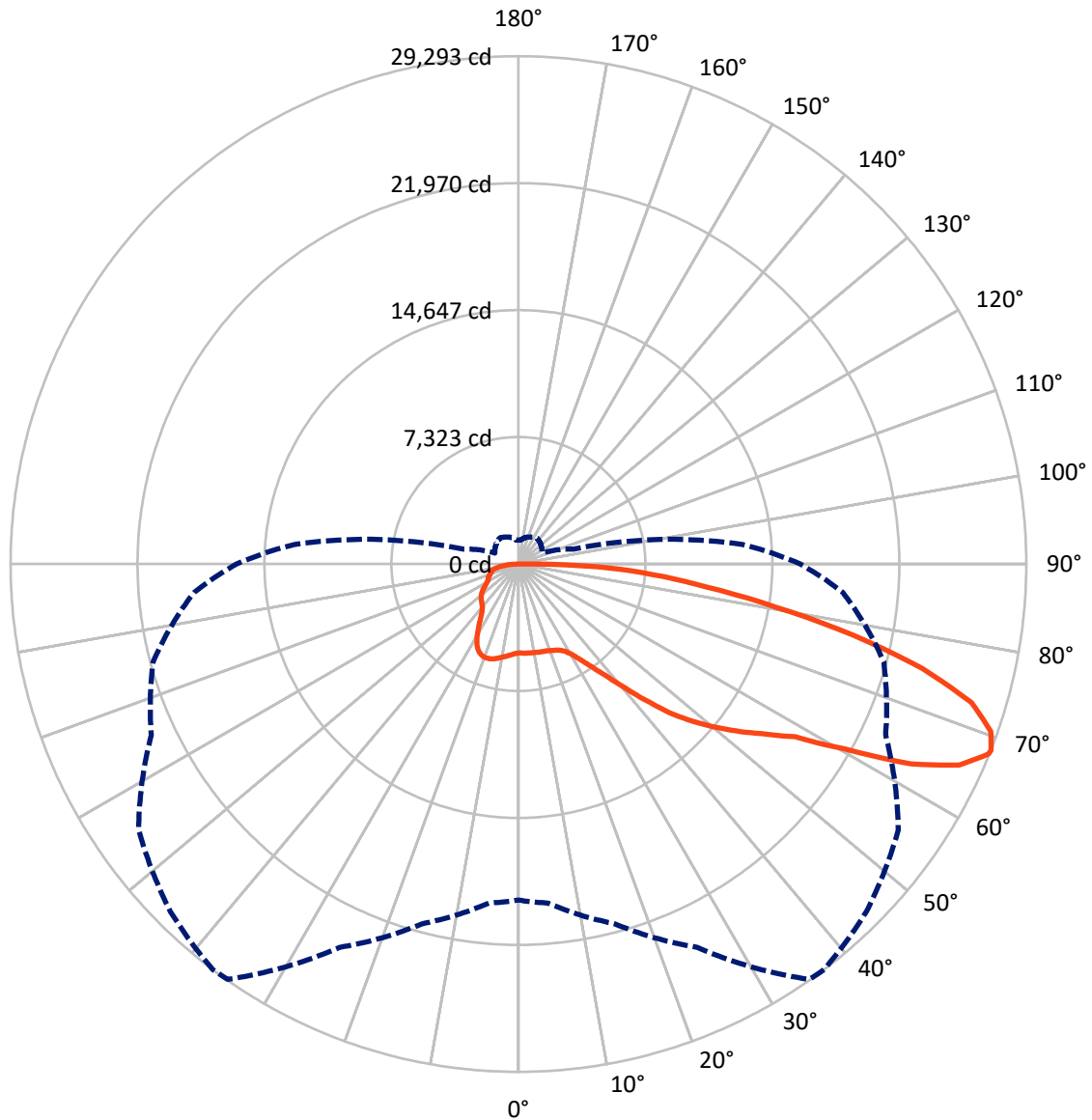
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 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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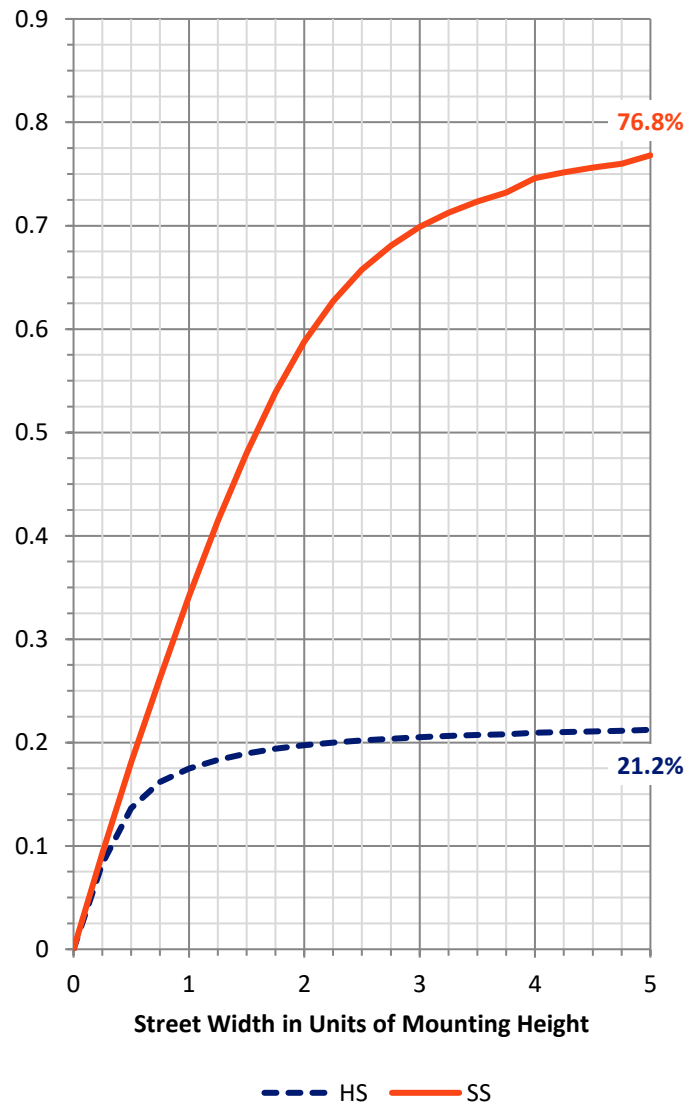
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11317.5	0.0	11317.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	41095.6	0.0	41095.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	52413.1	0.0	52413.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.7	0.9
10°-20°	1547.0	3.0
20°-30°	2642.4	5.0
30°-40°	4209.8	8.0
40°-50°	7301.3	13.9
50°-60°	10583.7	20.2
60°-70°	13347.1	25.5
70°-80°	9890.1	18.9
80°-90°	2393.9	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°	52413.1	100.0
0°-180°	52413.1	100.0



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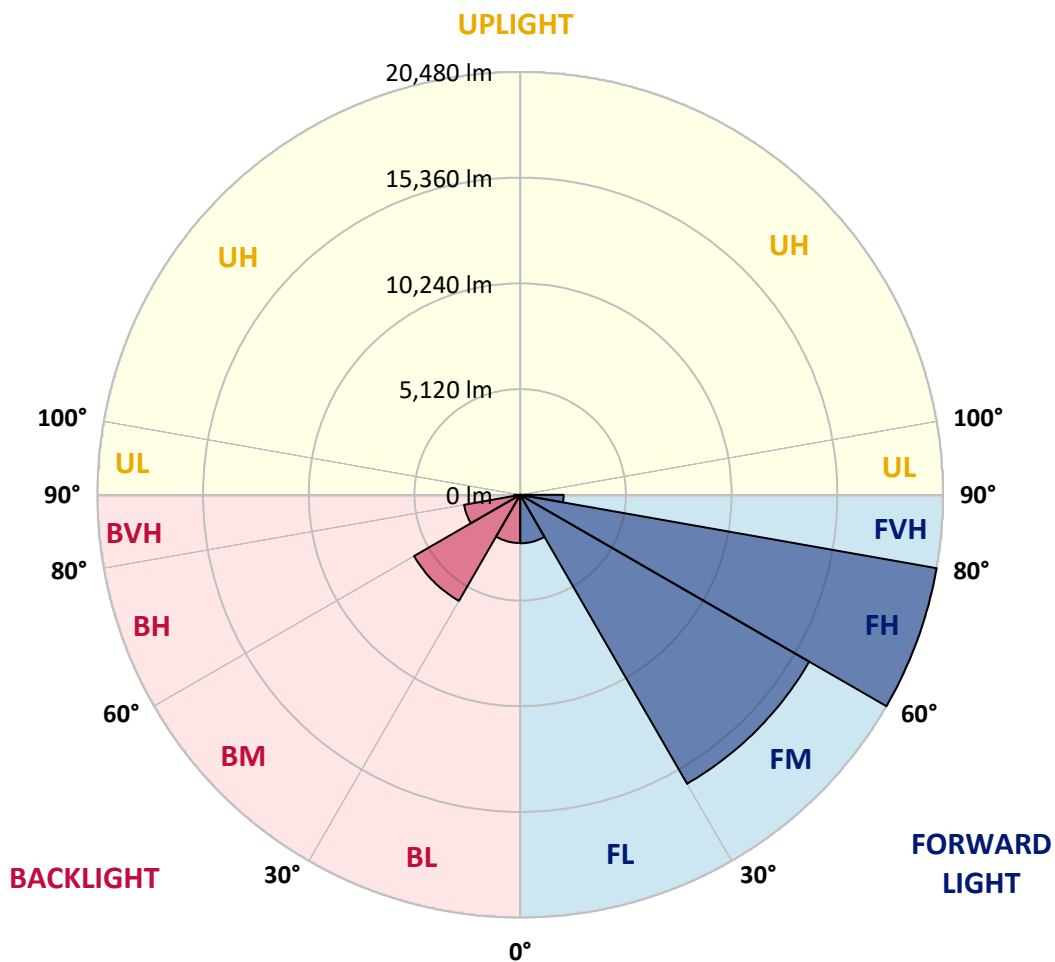
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2349.7	4.5			
FM	(30°-60°)	16161.9	30.8			
FH	(60°-80°)	20480.3	39.1			G5
FVH	(80°-90°)	2103.7	4.0			G5
BL	(0°-30°)	2337.5	4.5	B3/2500		
BM	(30°-60°)	5932.9	11.3	B4/8500		
BH	(60°-80°)	2756.9	5.3	B4/5000		G4/5000
BVH	(80°-90°)	290.2	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°	5121.1	5121.1	5121.1	5121.1	5121.1	5121.1	5121.1	5121.1	5121.1	5121.1	5121.1
2.5°	5123.1	5137.2	5141.3	5133.2	5141.3	5149.3	5131.2	5129.2	5121.1	5089.0	5093.0
5°	5125.1	5143.3	5145.3	5139.2	5153.3	5161.3	5153.3	5145.3	5137.2	5091.0	5101.1
7.5°	5125.1	5139.2	5143.3	5139.2	5159.4	5173.4	5173.4	5179.4	5179.4	5127.2	5135.2
10°	5107.1	5119.2	5125.1	5135.2	5169.3	5189.5	5201.5	5229.7	5245.7	5209.5	5211.5
12.5°	5024.8	5034.8	5054.9	5113.2	5193.5	5217.6	5251.7	5301.9	5342.1	5342.1	5346.1
15°	4960.5	4970.5	5008.7	5087.0	5209.5	5241.6	5308.0	5392.2	5466.6	5506.8	5538.9
17.5°	4976.5	4988.6	5044.8	5111.2	5233.7	5265.8	5360.1	5482.7	5605.2	5691.6	5755.8
20°	5026.8	5034.8	5099.1	5175.4	5306.0	5328.0	5420.4	5571.0	5741.7	5884.4	5988.8
22.5°	5169.3	5165.3	5217.6	5247.7	5382.3	5402.3	5508.7	5663.4	5884.4	6099.2	6251.8
25°	5287.8	5306.0	5348.1	5372.2	5482.7	5500.8	5633.3	5804.0	6059.0	6336.2	6581.2
27.5°	5418.4	5434.4	5476.6	5530.9	5685.5	5695.6	5787.9	5998.8	6281.9	6621.4	7013.0
30°	5713.6	5711.6	5753.8	5812.1	6020.9	6039.0	6125.4	6342.2	6605.3	7029.0	7501.0
32.5°	6223.7	6219.7	6225.7	6306.1	6533.0	6575.2	6685.6	6972.9	7302.2	7711.8	8236.1
35°	7270.1	7227.9	7147.5	7083.3	7211.8	7260.0	7501.0	7856.5	8445.0	9250.3	9898.9
37.5°	8999.2	8932.9	8661.8	8294.2	8145.6	8139.6	8308.3	8848.6	9764.3	11379.1	11965.4
40°	10656.0	10658.0	10290.6	9792.5	9328.6	9304.4	9208.1	9876.8	11192.2	13377.3	13652.5
42.5°	12226.6	12216.5	11788.7	11332.9	10778.5	10706.3	10425.1	10939.2	12618.2	15022.1	15076.3
45°	13642.4	13610.3	13150.4	12857.1	12381.2	12236.5	11863.0	12025.7	13953.7	16341.5	16150.8
47.5°	15010.1	14977.9	14403.5	14120.4	13702.6	13582.2	13186.5	13258.8	15231.0	17440.1	17020.4
50°	16421.9	16411.8	15580.4	15305.3	14861.4	14811.3	14572.2	14624.5	16564.4	18353.9	17829.7
52.5°	18094.8	17835.8	16901.9	16375.7	16060.3	16058.4	15791.2	15925.8	18038.5	19169.2	18392.0
55°	19890.2	19562.9	18607.0	17849.8	17307.5	17315.6	16899.9	17116.7	19334.0	19898.2	18930.2
57.5°	21171.5	21103.2	20818.0	20060.9	18940.3	18807.7	18169.1	18339.8	20470.6	20653.4	19317.8
60°	22366.4	22657.7	22848.5	22607.5	22043.2	21659.6	19888.2	19633.2	21472.7	21318.1	19520.7
62.5°	23119.6	23270.2	24159.9	24491.2	25376.9	25407.1	23288.2	21199.6	22326.3	21735.9	19611.1
65°	22290.1	22513.1	23987.1	25282.5	27808.9	27953.6	27059.9	23812.5	23007.1	21880.5	19440.4
67.5°	19976.6	20209.5	21980.8	24637.9	29154.6	29252.9	28325.1	26523.7	23346.5	21850.4	18940.3
68°	19384.1	19633.2	21480.8	24394.9	29246.9	29293.1	28375.3	26748.6	23368.6	21816.2	18777.6
70°	16932.0	17177.1	19048.7	22874.5	28881.4	28911.5	28058.0	26985.6	23254.1	21523.0	17707.2
72.5°	13301.0	13548.0	15024.1	19404.2	27045.8	27308.9	26873.1	26310.7	22770.1	20380.3	15182.7
75°	9424.9	9678.1	11214.4	15186.8	23316.4	24047.4	24917.0	25017.5	20958.7	17502.3	11310.7
77.5°	6645.5	6852.4	8181.8	11352.9	18817.8	19763.7	21575.2	21723.8	17552.6	13355.2	5966.7
80°	4313.8	4490.6	5681.5	8320.4	14224.8	15042.2	17032.4	16417.9	12473.5	7262.0	1038.3
82.5°	2604.8	2737.3	3618.9	5755.8	10409.1	10953.3	11764.7	9856.8	5787.9	1026.2	363.5
85°	1494.1	1584.6	2235.2	3697.2	7334.3	7798.2	7910.7	4948.5	1088.5	283.2	204.9
87.5°	765.1	811.4	1199.0	2271.4	4333.9	4532.8	3968.4	1771.3	216.9	126.6	102.4
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°	5121.1	5121.1	5121.1	5121.1	5121.1	5121.1	5121.1	5121.1	5121.1	5121.1	5121.1
2.5°	5073.0	5087.0	5097.1	5131.2	5167.3	5185.5	5167.3	5195.5	5205.5	5197.5	5185.5
5°	5085.0	5107.1	5123.1	5191.5	5231.7	5261.8	5241.6	5281.8	5295.9	5279.8	5279.8
7.5°	5119.2	5149.3	5175.4	5265.8	5312.0	5352.2	5340.1	5368.2	5380.3	5360.1	5372.2
10°	5209.5	5239.6	5273.9	5386.3	5416.4	5454.6	5432.4	5454.6	5458.6	5444.5	5454.6
12.5°	5366.2	5386.3	5452.5	5567.0	5571.0	5581.1	5534.9	5492.7	5474.6	5448.5	5466.6
15°	5567.0	5603.2	5693.6	5789.9	5763.8	5741.7	5627.2	5490.7	5404.3	5340.1	5336.1
17.5°	5789.9	5854.3	5966.7	6028.9	5968.7	5868.2	5675.4	5444.5	5235.7	5121.1	5085.0
20°	6018.9	6119.3	6243.8	6255.8	6153.5	5960.7	5667.4	5326.0	4980.6	4767.7	4715.5
22.5°	6298.0	6428.6	6541.1	6480.8	6276.0	5992.8	5593.1	5117.2	4643.2	4319.8	4271.6
25°	6667.5	6796.1	6816.2	6639.4	6322.1	5932.6	5422.4	4805.9	4205.4	3803.8	3765.6
27.5°	7113.4	7181.7	7051.2	6721.8	6265.9	5751.8	5131.2	4374.1	3717.4	3367.9	3309.6
30°	7607.4	7583.4	7223.9	6723.8	6101.2	5444.5	4689.4	3884.1	3331.8	3030.6	2974.3
32.5°	8234.0	8075.4	7398.6	6633.4	5830.1	5030.8	4169.2	3492.5	3066.7	2759.4	2705.2
35°	9479.2	8997.2	7635.5	6490.8	5470.6	4534.8	3713.4	3209.3	2839.8	2486.3	2436.1
37.5°	11373.0	10374.9	8063.3	6334.2	5071.0	4026.7	3363.9	2988.4	2661.0	2283.4	2205.1
40°	13033.9	11897.2	8746.2	6187.6	4663.2	3641.1	3163.1	2881.9	2562.6	2181.1	2100.7
42.5°	14309.2	13116.3	9527.3	6012.8	4237.5	3355.9	3078.7	2867.9	2550.5	2181.1	2106.7
45°	15339.4	14122.4	10222.3	5822.0	3825.8	3130.9	3002.4	2841.7	2526.5	2169.0	2098.7
47.5°	16152.8	14873.5	10770.5	5603.2	3398.0	2978.3	2924.1	2751.4	2464.2	2132.8	2062.6
50°	16857.7	15411.7	11077.8	5346.1	3018.5	2857.8	2813.6	2606.8	2339.6	2026.4	1980.2
52.5°	17349.7	15849.5	11194.2	5239.6	2747.4	2721.3	2663.0	2460.1	2205.1	1899.9	1847.6
55°	17719.3	16074.4	11097.9	4996.7	2476.2	2510.4	2484.3	2347.7	2110.7	1821.5	1769.3
57.5°	17908.1	16148.7	10822.7	4080.8	2219.2	2259.4	2277.4	2285.5	2096.7	1843.6	1795.5
60°	17974.3	16032.3	10222.3	2914.1	1944.1	2024.4	2124.8	2154.9	2034.4	1759.2	1719.2
62.5°	17873.9	15729.0	9045.4	2014.3	1735.2	1877.7	2010.3	2002.3	1873.8	1634.8	1580.5
65°	17482.3	14985.9	6878.4	1624.7	1664.9	1811.5	1958.1	1859.7	1735.2	1514.3	1486.2
67.5°	16534.3	13421.5	3857.9	1500.2	1642.7	1773.3	1867.8	1749.3	1610.6	1401.8	1389.7
68°	16253.1	12961.6	3293.6	1492.1	1638.8	1761.2	1843.6	1721.1	1586.6	1383.7	1375.6
70°	14614.4	10591.8	1486.2	1466.1	1614.7	1717.1	1777.3	1642.7	1498.2	1321.5	1309.4
72.5°	11292.7	6559.1	998.1	1393.8	1554.4	1650.8	1689.0	1562.5	1442.0	1245.2	1229.1
75°	6693.7	1803.4	946.0	1269.2	1452.0	1586.6	1626.7	1500.2	1357.6	1130.7	1104.5
77.5°	1646.8	650.7	915.8	1128.7	1345.5	1480.2	1544.4	1458.0	1285.3	1018.2	992.1
80°	500.1	518.2	871.6	976.1	1211.0	1321.5	1359.6	1359.6	1188.9	716.9	755.1
82.5°	329.3	415.7	743.1	733.0	962.0	1094.6	1022.3	1026.2	933.9	319.3	373.5
85°	206.9	339.4	502.1	480.0	612.5	670.8	727.0	747.1	656.7	92.4	6.0
87.5°	106.4	144.6	176.7	188.8	243.0	347.4	465.9	457.9	337.4	82.4	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)