

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: 767608

Luminaire Tested: **GLX91SXXARFG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 767608
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLX91SXXARFG
Description: 1000W HPS VERTICAL AREA ROUND
Light Source: 1000W HPS CL ED-37
Ballast/Driver: -

Summary

Lumens per Lamp: 135000 (1 lamp)
Luminaire Lumens: 96662.9 lumens
Efficiency: 71.6%
Efficacy: 96.7 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Short - Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 1000
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



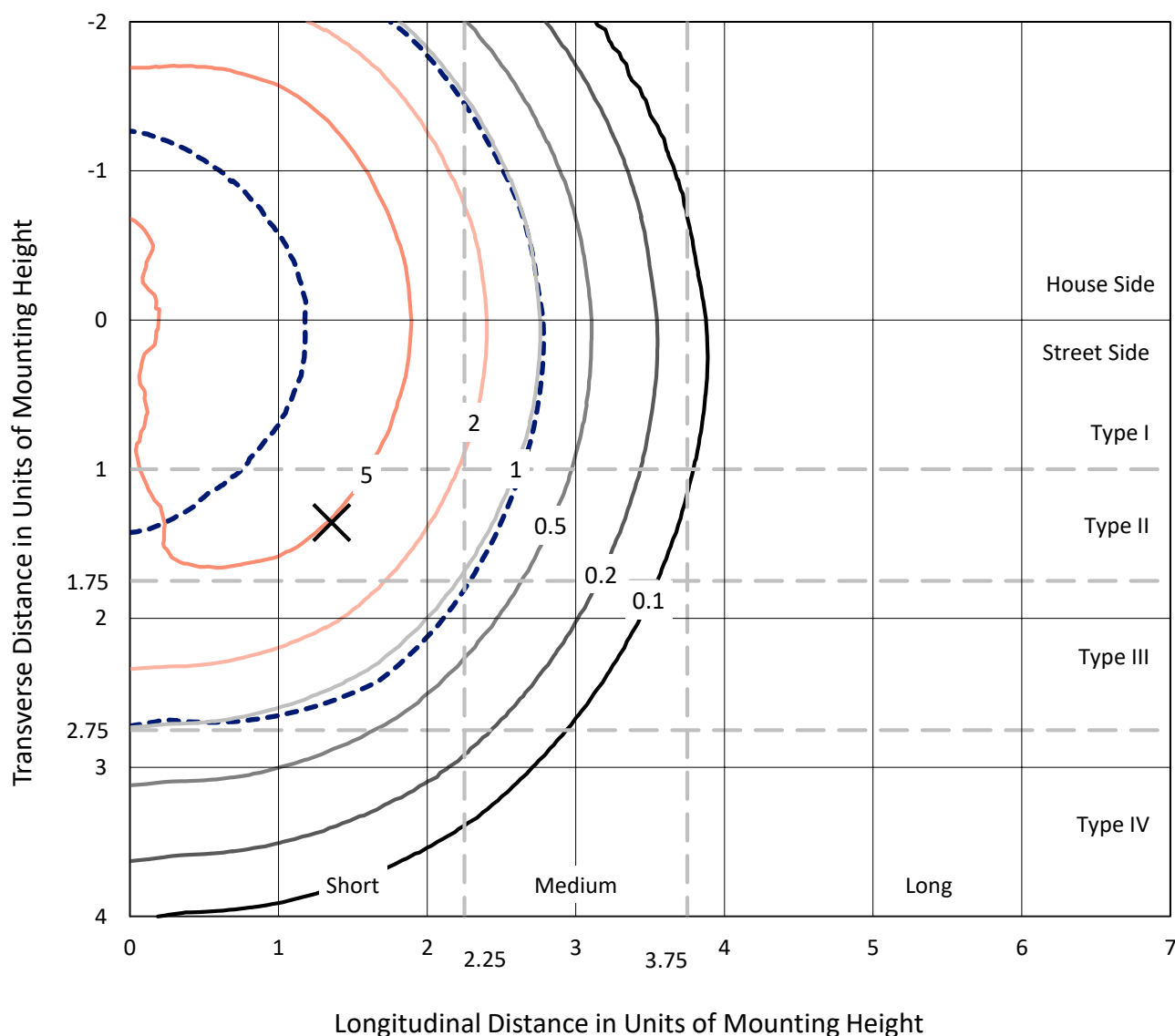
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

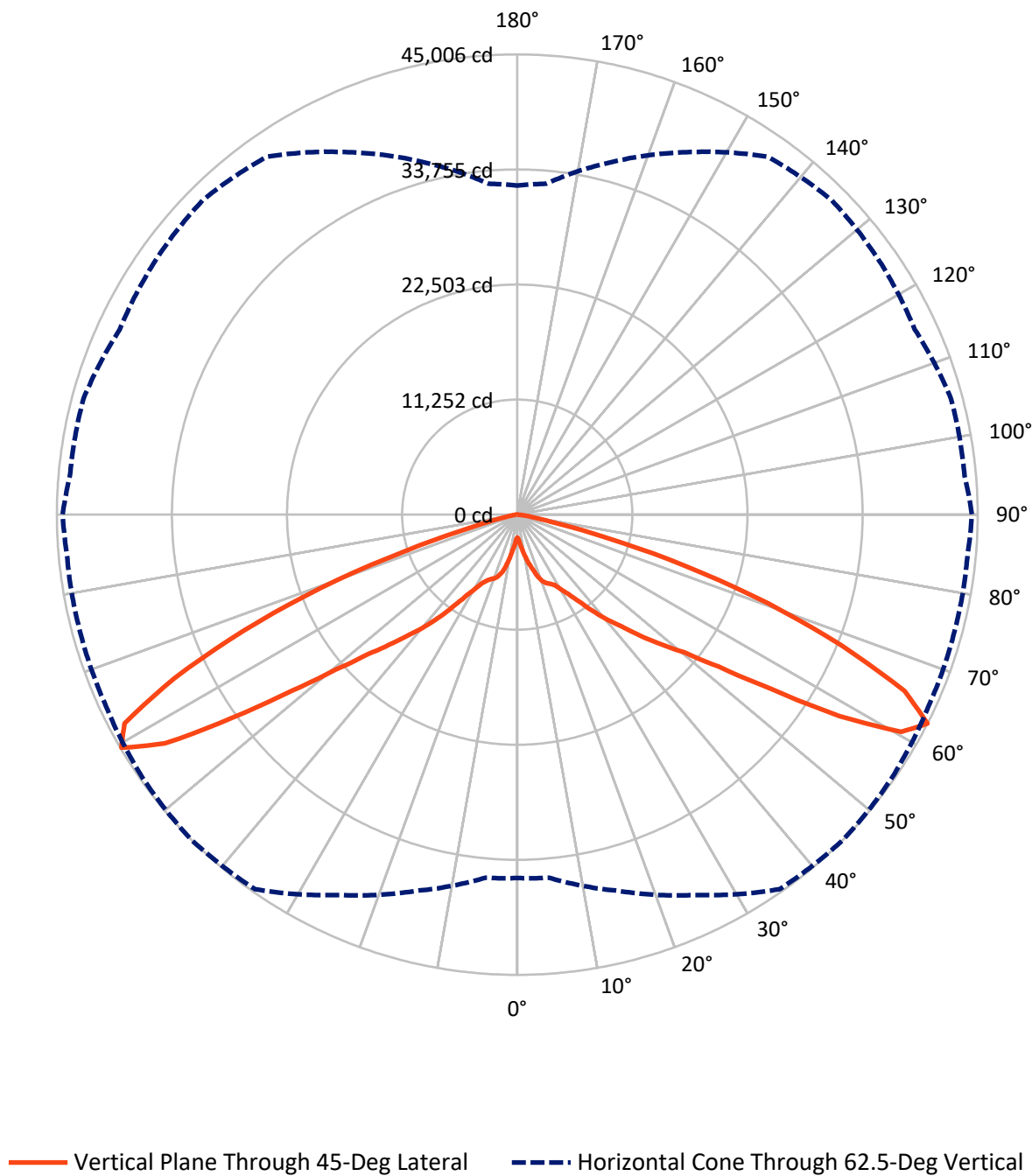


Based on 30 foot mounting height. Maximum calculated value = 7.2 fc
 Type V - Short - Cutoff

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Luminous Intensity Polar Plot



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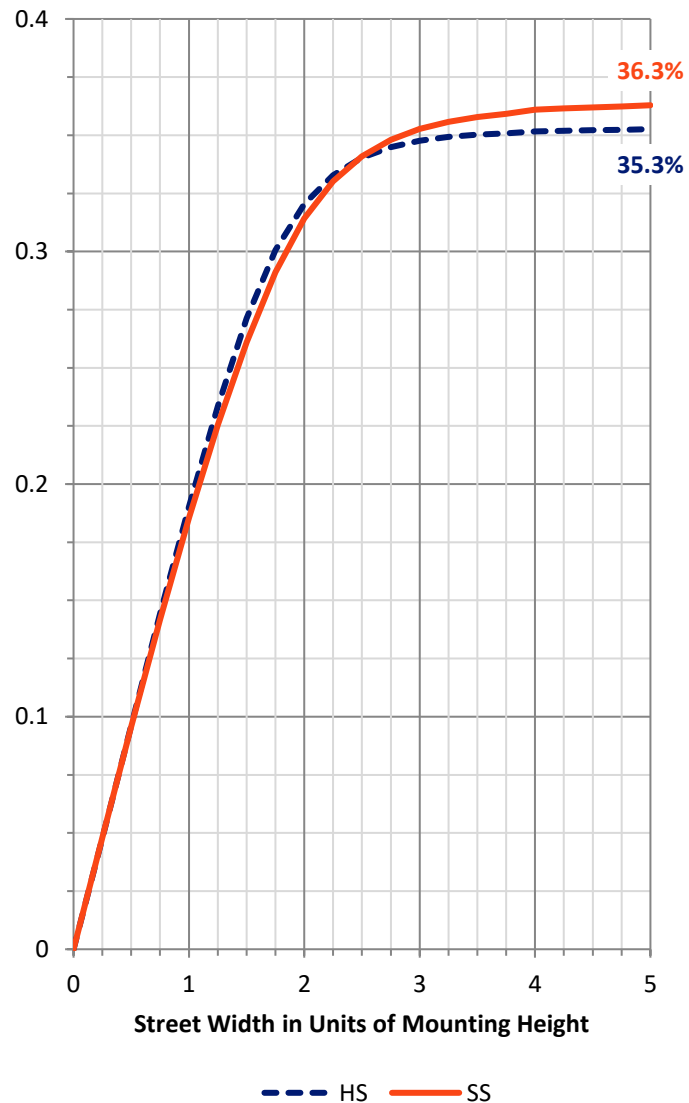
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	47625.3	0.0	47625.3
	% Lamp	35.3	0.0	35.3
Street Side	Lumens	49037.6	0.0	49037.6
	% Lamp	36.3	0.0	36.3
Total	Lumens	96662.9	0.0	96662.9
	% Lamp	71.6	0.0	71.6

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	309.4	0.3	0.2
10°-20°	1553.6	1.6	1.2
20°-30°	3241.1	3.4	2.4
30°-40°	6552.6	6.8	4.9
40°-50°	13153.1	13.6	9.7
50°-60°	28037.2	29.0	20.8
60°-70°	34545.9	35.7	25.6
70°-80°	8891.2	9.2	6.6
80°-90°	378.8	0.4	0.3
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	96662.9	100.0	71.6
0°-180°	96662.9	100.0	71.6

Coefficient of Utilization



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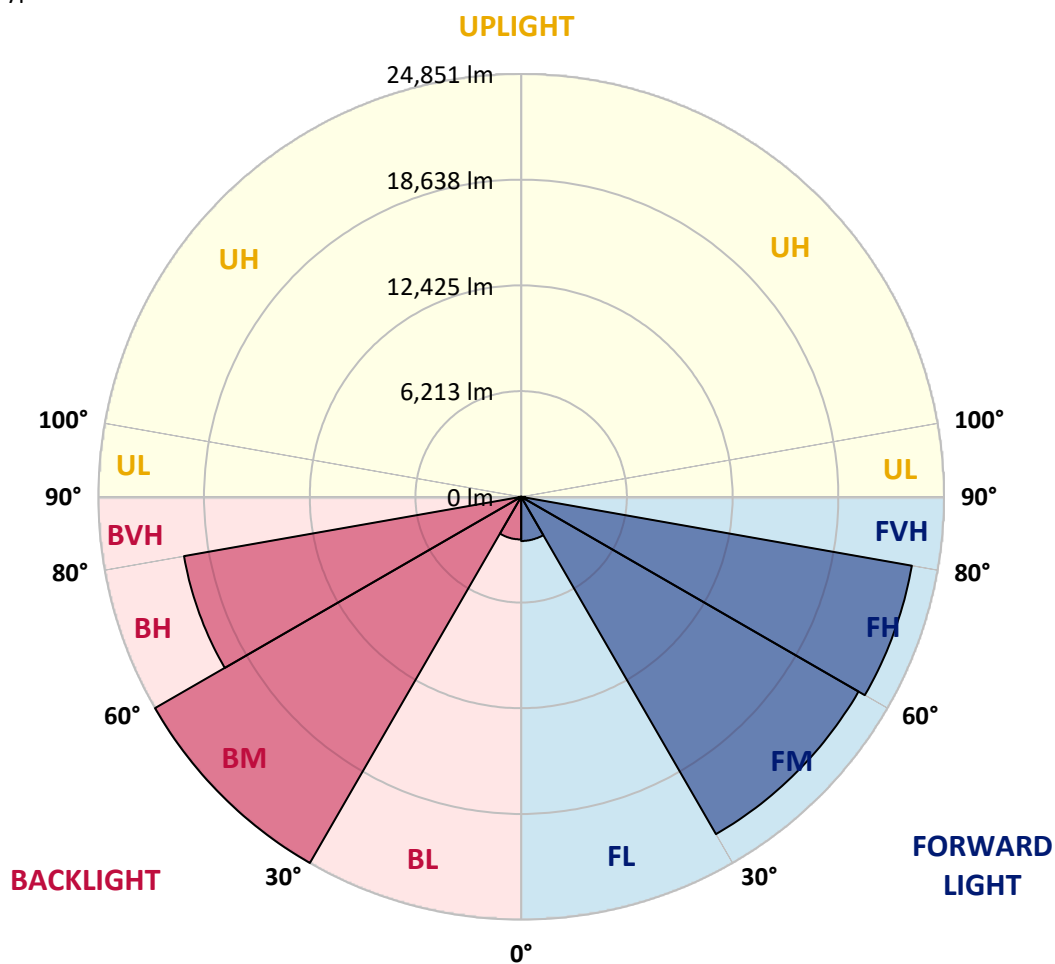
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2597.6	1.9			
FM	(30°-60°)	22892.1	17.0			
FH	(60°-80°)	23317.8	17.3			G5
FVH	(80°-90°)	230.1	0.2			G3/500
BL	(0°-30°)	2506.5	1.9	B4/5000		
BM	(30°-60°)	24850.7	18.4	B5		
BH	(60°-80°)	20119.3	14.9	B5		G5
BVH	(80°-90°)	148.7	0.1			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		38337.1	28.4			

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2239.8	2239.8	2239.8	2239.8	2239.8	2239.8	2239.8	2239.8	2239.8	2239.8	2239.8
2.5°	2545.8	2393.3	2495.0	2495.0	2444.2	2444.2	2444.2	2444.2	2495.0	2495.0	2444.2
5°	2850.8	2749.2	2850.8	2800.0	2800.0	2850.8	2901.7	2952.5	2952.5	3003.3	3003.3
7.5°	3156.9	3055.2	3258.5	3309.4	3360.2	3411.0	3512.7	3614.4	3665.2	3717.1	3717.1
10°	3461.9	3411.0	3665.2	3869.6	3971.2	4072.9	4174.6	4327.1	4429.8	4480.6	4480.6
12.5°	3767.9	3717.1	4225.4	4531.5	4633.1	4785.6	4836.5	5142.5	5345.8	5345.8	5295.0
15°	4072.9	4123.7	4734.8	5244.2	5345.8	5447.5	5650.8	5956.9	6211.0	6160.2	6109.4
17.5°	4480.6	4480.6	5295.0	5956.9	6160.2	6261.9	6415.4	6669.6	6771.2	6771.2	6669.6
20°	4684.0	4734.8	5855.2	6618.8	6771.2	6923.7	6974.6	7025.4	7025.4	7025.4	6923.7
22.5°	4887.3	4988.9	6211.0	7128.1	7280.6	7280.6	7229.8	7229.8	7128.1	7077.3	7077.3
25°	5091.7	5244.2	6517.1	7433.1	7534.8	7484.0	7484.0	7382.3	7280.6	7229.8	7229.8
27.5°	5295.0	5396.7	6822.1	7687.3	7840.8	7790.0	7687.3	7636.4	7585.6	7585.6	7585.6
30°	5906.0	6007.7	7433.1	8400.0	8553.5	8502.7	8451.9	8400.0	8400.0	8400.0	8400.0
32.5°	6415.4	6669.6	8095.0	9164.6	9266.2	9317.1	9266.2	9266.2	9266.2	9418.7	9317.1
35°	7433.1	7687.3	9061.9	10233.1	10334.8	10436.4	10436.4	10539.2	10590.0	10640.8	10691.7
37.5°	8451.9	8807.7	10233.1	11658.5	11709.4	11913.8	11913.8	11964.6	12066.2	12218.7	12269.6
40°	9672.9	10131.5	11658.5	13186.7	13134.8	13440.8	13491.7	13542.5	13695.0	13848.5	14204.4
42.5°	10895.0	11404.4	12982.3	14612.1	14662.9	14917.1	15018.7	15120.4	15274.0	15477.3	15935.8
45°	12117.1	12931.4	14612.1	16291.7	16291.7	16902.7	16750.2	17055.2	17208.8	17412.1	17615.4
47.5°	13440.8	14510.4	16190.0	18175.6	18124.8	18990.0	18685.0	19091.7	19142.5	19397.7	19601.0
50°	15172.3	16495.0	18124.8	20161.2	20110.4	21178.9	21077.3	21586.7	21637.5	22197.7	22451.9
52.5°	17818.7	18939.2	20772.3	22961.2	23419.8	24692.7	24896.0	25507.1	25354.6	26372.3	26627.5
55°	22197.7	22656.2	24997.7	26983.3	28612.1	29987.7	31005.4	30954.6	31463.9	32176.7	32532.5
57.5°	27899.4	28103.7	30496.0	33041.9	35689.4	37165.6	37725.8	37573.3	37980.0	38489.4	38998.7
60°	32991.0	33449.6	35791.0	38540.2	42002.1	43122.5	43275.0	43020.8	43173.3	43427.5	44038.5
62.5°	35536.9	35638.5	38082.7	41035.2	44700.4	45006.4	44751.2	44344.6	44242.9	44192.1	44446.2
65°	33602.1	33143.5	35791.0	38540.2	41747.9	41595.4	40882.7	40067.3	39558.9	39100.4	38998.7
67.5°	28103.7	27696.0	29987.7	32075.0	34619.8	34213.1	33346.9	32532.5	32176.7	31565.6	31259.6
70°	21891.6	21281.7	23012.1	24743.5	26678.3	26016.5	25048.5	24081.7	23724.8	23318.1	23012.1
72.5°	15069.6	14612.1	16037.5	16953.5	17870.6	17208.8	16291.7	15629.8	15172.3	14561.2	14356.9
75°	8553.5	7993.3	8706.0	9164.6	9469.6	8756.9	8095.0	7484.0	7128.1	6923.7	6618.8
77.5°	3461.9	3258.5	3563.5	3563.5	3512.7	3258.5	3106.0	3003.3	2850.8	2698.3	2647.5
80°	1527.1	1272.9	1527.1	1527.1	1527.1	1476.2	1374.6	1323.8	1323.8	1222.1	1222.1
82.5°	611.0	407.7	661.9	712.7	661.9	661.9	611.0	611.0	560.2	509.4	509.4
85°	305.0	203.3	407.7	407.7	356.9	356.9	356.9	356.9	356.9	305.0	305.0
87.5°	0.0	0.0	0.0	101.7	101.7	0.0	0.0	0.0	0.0	101.7	50.8
90°	0.0	0.0	0.0	50.8	50.8	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2239.8	2239.8	2239.8	2239.8	2239.8	2239.8	2239.8	2239.8	2239.8	2239.8
2.5°	2290.6	2444.2	2341.4	2444.2	2393.3	2341.4	2189.0	2341.4	2341.4	2341.4
5°	2850.8	3003.3	2850.8	2901.7	2901.7	2749.2	2545.8	2698.3	2749.2	2749.2
7.5°	3563.5	3665.2	3461.9	3512.7	3411.0	3360.2	3106.0	3106.0	3055.2	3055.2
10°	4327.1	4429.8	4123.7	4225.4	4174.6	4022.1	3818.8	3717.1	3563.5	3461.9
12.5°	5091.7	5142.5	4988.9	5039.8	4988.9	4887.3	4531.5	4429.8	4022.1	3971.2
15°	5855.2	5956.9	5650.8	5753.5	5753.5	5600.0	5193.3	4887.3	4377.9	4377.9
17.5°	6517.1	6517.1	6261.9	6312.7	6261.9	6109.4	5650.8	5193.3	4582.3	4582.3
20°	6822.1	6923.7	6567.9	6618.8	6618.8	6415.4	6007.7	5396.7	4734.8	4684.0
22.5°	6923.7	7025.4	6771.2	6822.1	6771.2	6618.8	6160.2	5549.2	4785.6	4785.6
25°	7077.3	7179.0	7025.4	7128.1	7077.3	6974.6	6466.3	5855.2	5039.8	4988.9
27.5°	7433.1	7484.0	7484.0	7484.0	7484.0	7382.3	6923.7	6261.9	5396.7	5396.7
30°	8247.5	8349.2	8349.2	8400.0	8298.3	8349.2	7840.8	7128.1	6261.9	6211.0
32.5°	9215.4	9317.1	9317.1	9367.9	9266.2	9367.9	8858.5	8145.8	7229.8	7025.4
35°	10640.8	10640.8	10691.7	10742.5	10691.7	10742.5	10385.6	9520.4	8655.2	8451.9
37.5°	12117.1	12269.6	12422.1	12474.0	12422.1	12474.0	12117.1	11047.5	10182.3	9877.3
40°	13796.7	13950.2	14153.5	14153.5	14153.5	14102.7	13796.7	12779.0	11760.2	11404.4
42.5°	15324.8	15680.6	15782.3	15986.7	15833.1	15885.0	15477.3	14356.9	13339.2	12931.4
45°	17208.8	17717.1	17666.2	18124.8	17818.7	17921.5	17361.2	16342.5	15172.3	14458.5
47.5°	19091.7	19804.4	19651.9	20415.4	20008.7	19957.9	19397.7	18328.1	17156.9	16190.0
50°	21994.4	22859.6	22910.4	23826.4	23318.1	23267.3	22401.0	21434.2	20161.2	19245.2
52.5°	26219.8	27034.2	27746.9	28103.7	27950.2	27899.4	26524.8	25251.9	23929.2	23724.8
55°	32380.0	33092.7	33805.4	34213.1	34162.3	34365.6	32176.7	30700.4	28816.4	28714.8
57.5°	38540.2	39405.4	39914.8	40678.3	41086.0	41238.5	38030.8	35943.5	33398.7	33092.7
60°	43530.2	43987.7	43733.5	44446.2	44904.8	44700.4	41035.2	38030.8	34976.7	34619.8
62.5°	43886.0	43886.0	42868.3	43224.1	43479.4	42714.8	39100.4	35689.4	32481.6	32176.7
65°	38387.7	38082.7	36911.4	36809.8	37114.8	36147.9	33041.9	29478.3	27034.2	26575.6
67.5°	30751.2	30343.5	29172.3	29070.6	29070.6	28154.6	25507.1	22808.7	20772.3	20364.6
70°	22401.0	21994.4	21026.4	20569.0	20569.0	19702.7	17462.9	15680.6	14510.4	14153.5
72.5°	13796.7	13339.2	12422.1	11812.1	11404.4	10844.2	9469.6	8349.2	7840.8	7636.4
75°	6109.4	5804.4	5244.2	4836.5	4531.5	4123.7	3461.9	3207.7	3258.5	3258.5
77.5°	2341.4	2393.3	2239.8	2087.3	1934.8	1782.3	1476.2	1577.9	1527.1	1527.1
80°	916.0	1120.4	1069.6	966.9	865.2	865.2	560.2	712.7	712.7	712.7
82.5°	203.3	458.5	458.5	407.7	407.7	356.9	203.3	305.0	305.0	305.0
85°	152.5	305.0	254.2	203.3	254.2	203.3	101.7	203.3	203.3	203.3
87.5°	50.8	101.7	101.7	101.7	101.7	101.7	50.8	101.7	101.7	101.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)